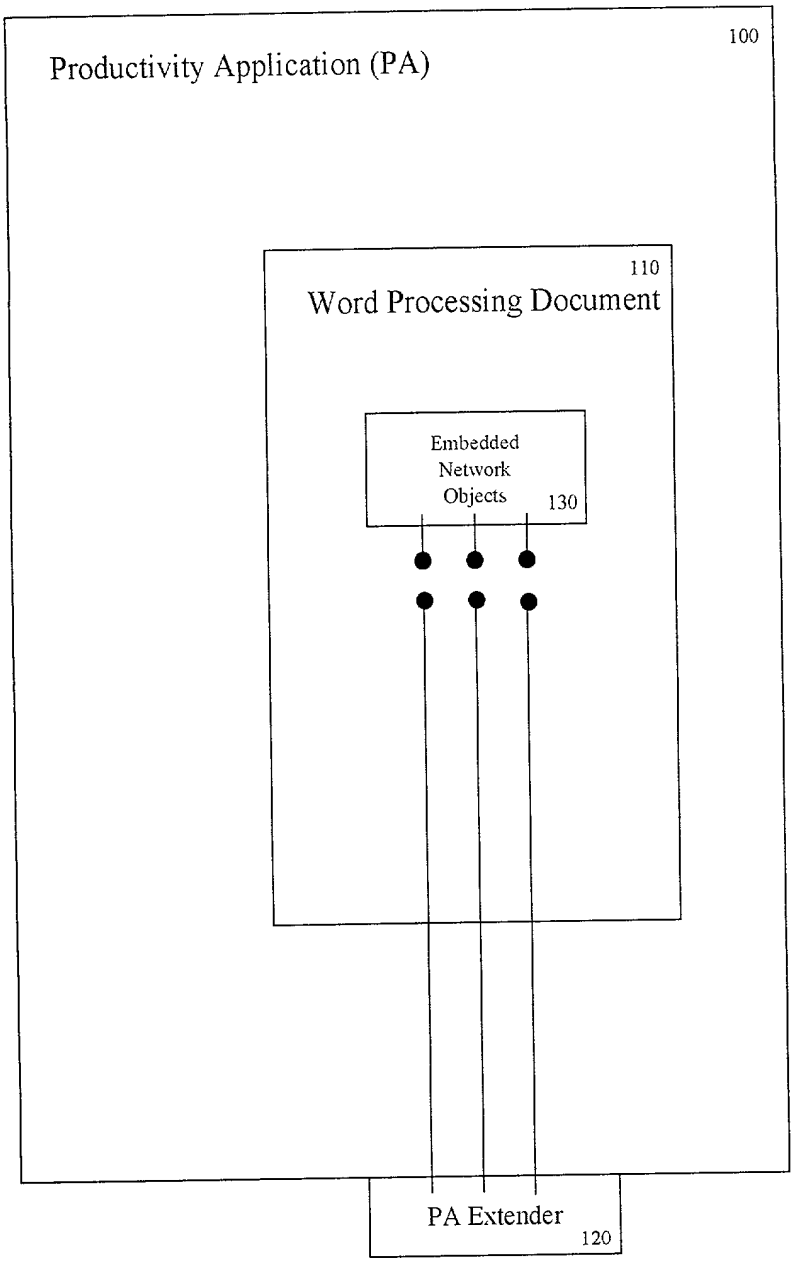
Productivity Application (PA)
100
Word Processing Document
110
Embedded
Network
Objects
130
PA Extender
120

FIG. 1A

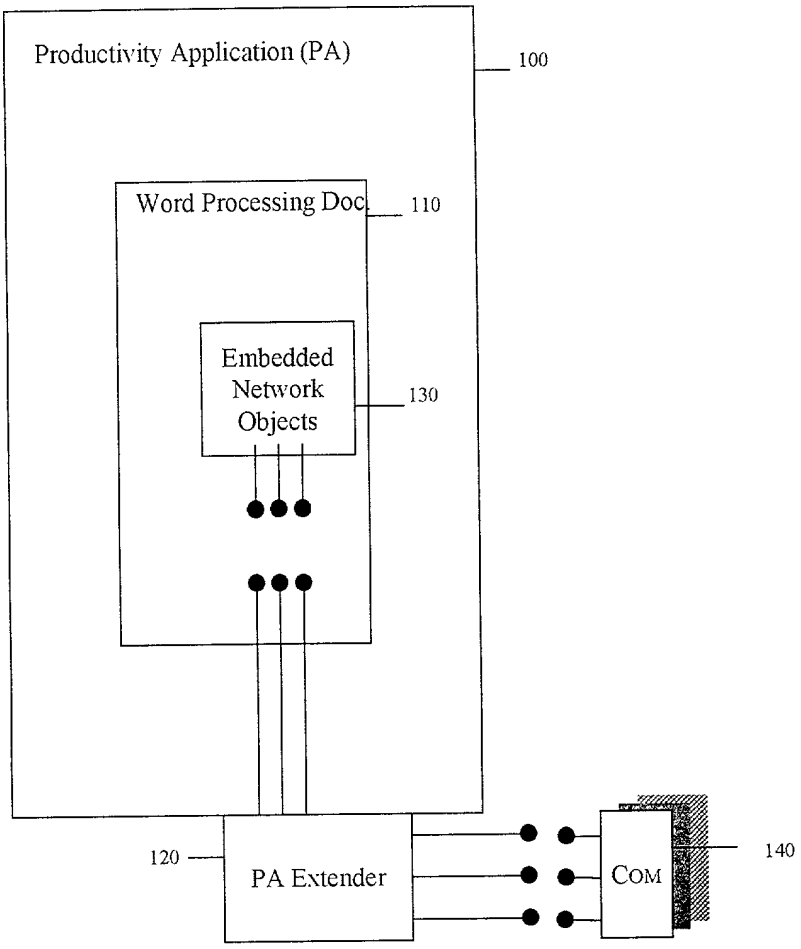
Productivity Application (PA)
100
Word Processing Doc.
110
Embedded Network Objects
130
120
PA Extender
COM
140

FIG. 1B

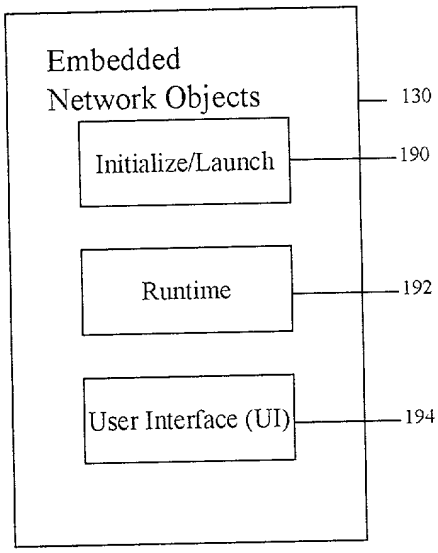
Embedded
Network Objects
130
Initialize/Launch
190
Runtime
192
User Interface (UI)
194

FIG. 1C

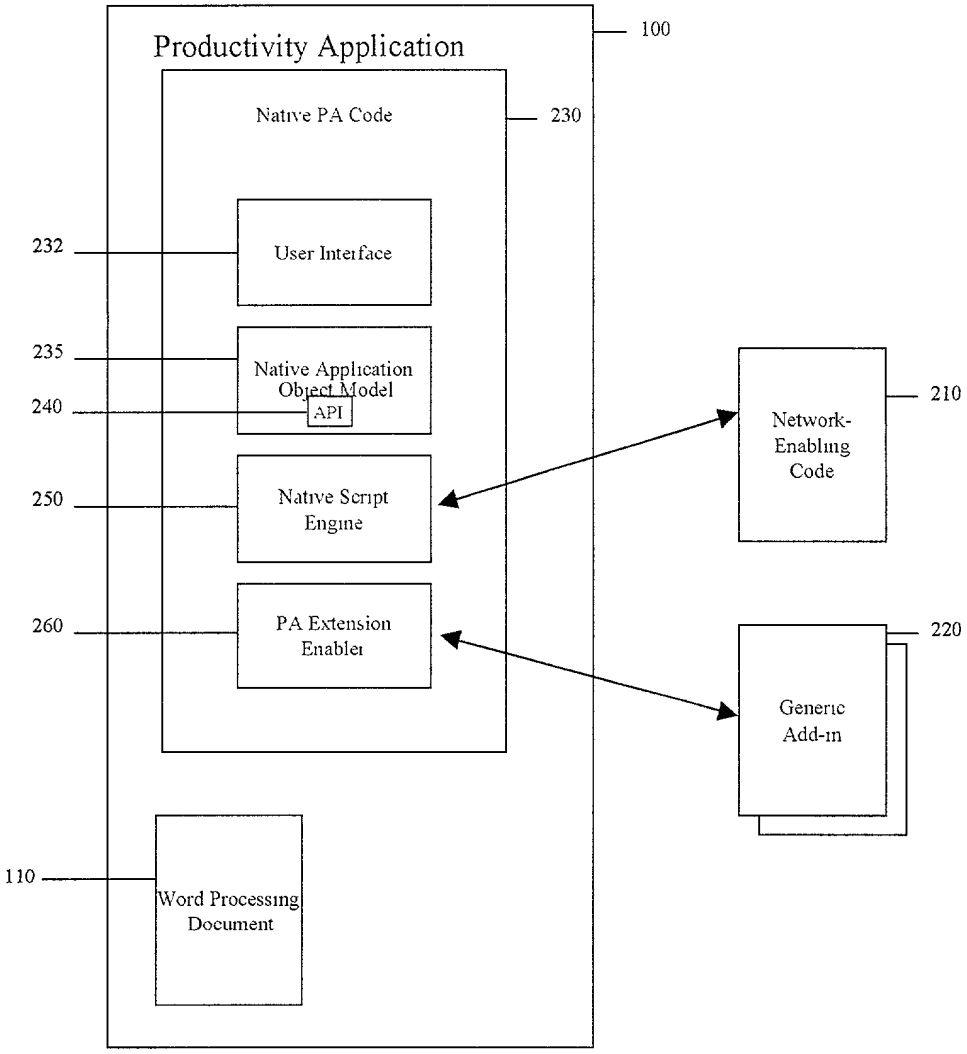
Productivity Application
100
Native PA Code
230
232
User Interface
235
Native Application Object Model
240
API
250
Native Script Engine
260
PA Extension Enabler
110
Word Processing Document
Network-Enabling Code
210
Generic Add-in
220

FIG. 2

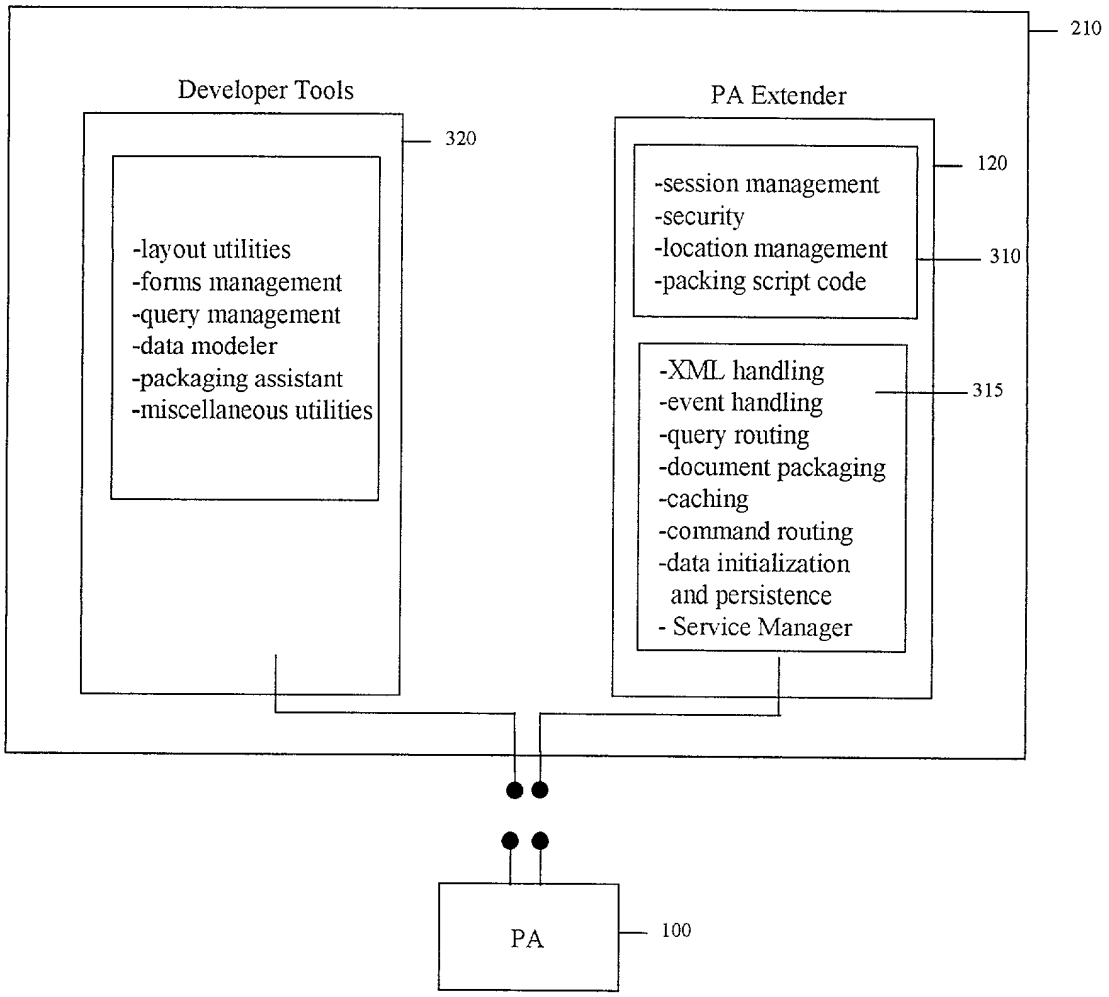
210
Developer Tools
320
-layout utilities
-forms management
-query management
-data modeler
-packaging assistant
-miscellaneous utilities
PA Extender
120
-session management
-security
-location management
-packing script code
310
-XML handling
-event handling
-query routing
-document packaging
-caching
-command routing
-data initialization
and persistence
- Service Manager
315
PA
100

FIG. 3A

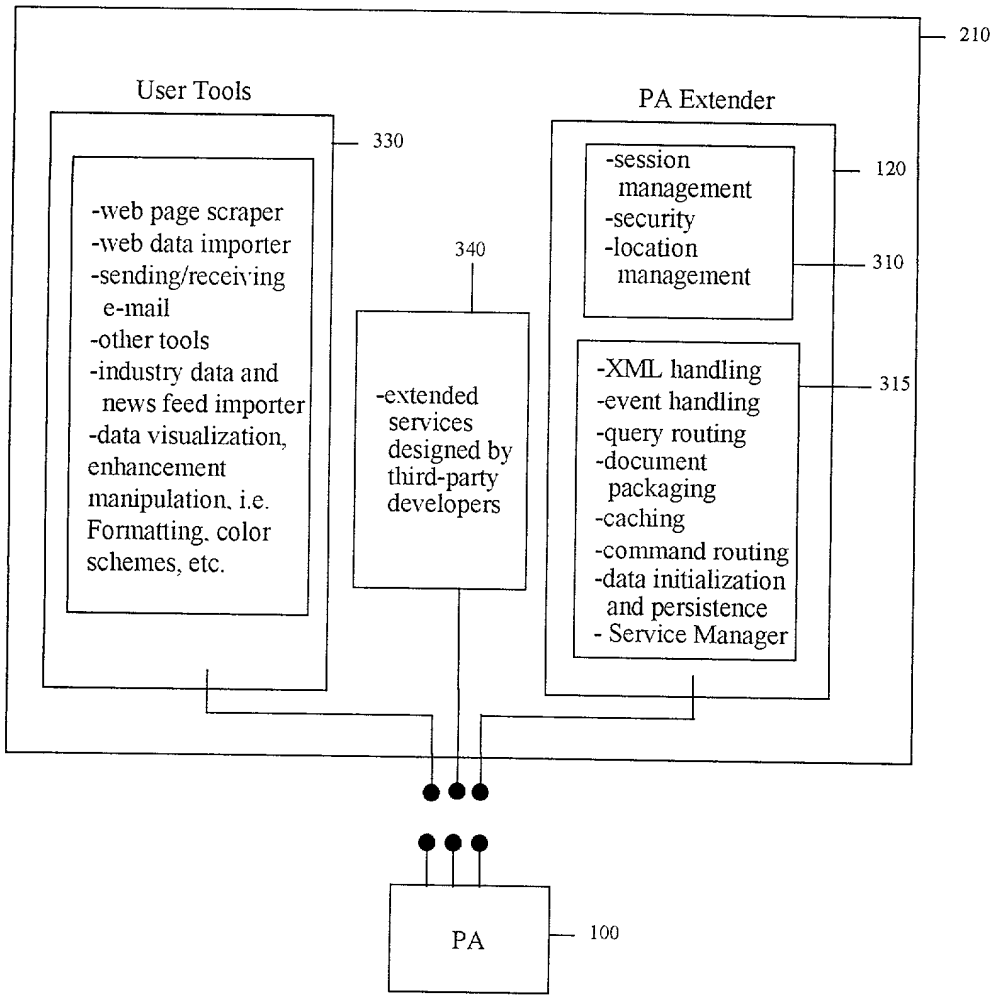
210
User Tools
330
-web page scraper
-web data importer
-sending/receiving e-mail
-other tools
-industry data and news feed importer
-data visualization, enhancement manipulation, i.e. Formatting, color schemes, etc.
340
-extended services designed by third-party developers
PA Extender
120
-session management
-security
-location management
310
315
-XML handling
-event handling
-query routing
-document packaging
-caching
-command routing
-data initialization and persistence
- Service Manager
PA
100

FIG. 3B

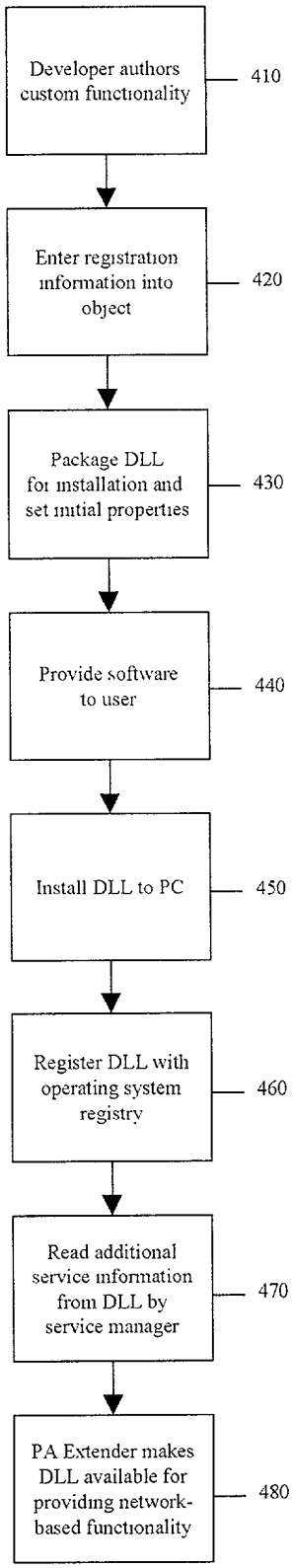
Developer authors custom functionality
410
Enter registration information into object
420
Package DLL for installation and set initial properties
430
Provide software to user
440
Install DLL to PC
450
Register DLL with operating system registry
460
Read additional service information from DLL by service manager
470
PA Extender makes DLL available for providing network-based functionality
480

FIG. 4

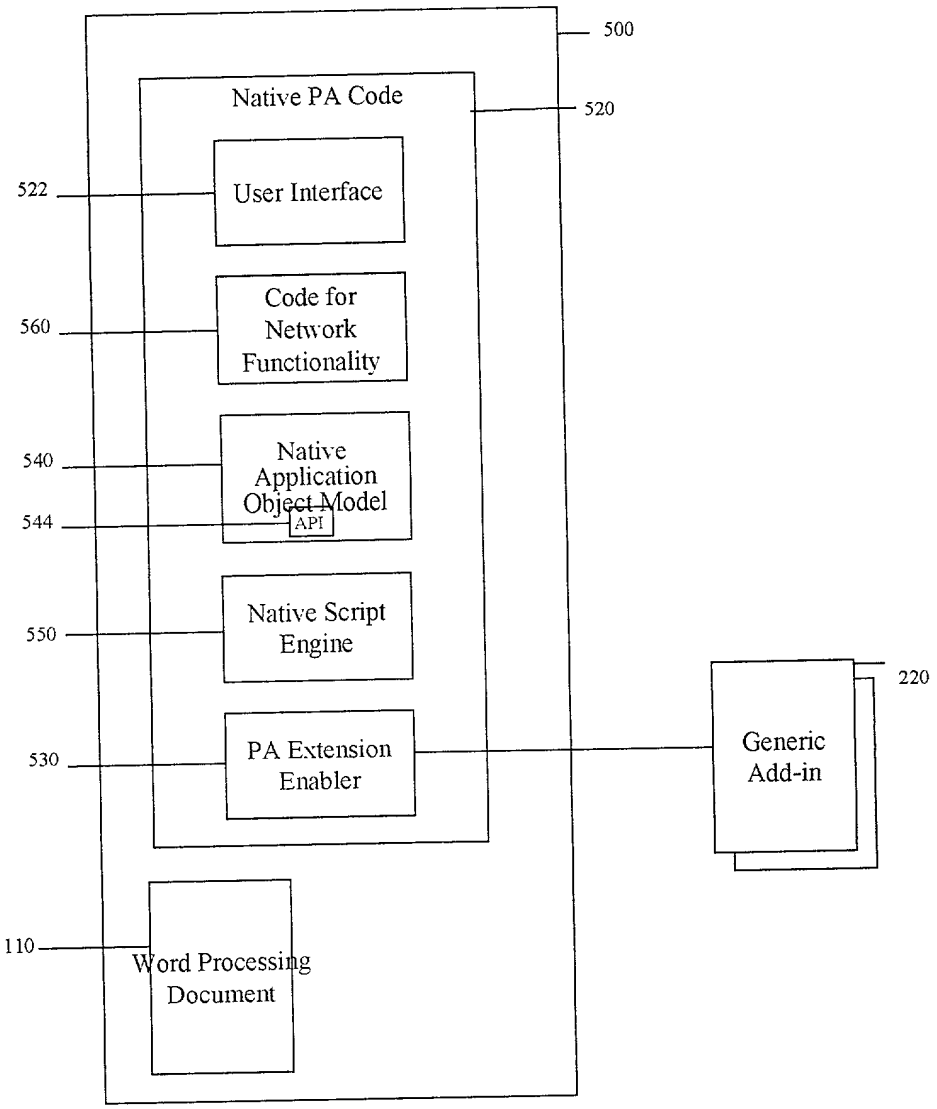
500
Native PA Code
520
522
User Interface
560
Code for Network Functionality
540
Native Application Object Model
544
API
550
Native Script Engine
530
PA Extension Enabler
220
Generic Add-in
110
Word Processing Document

FIG. 5

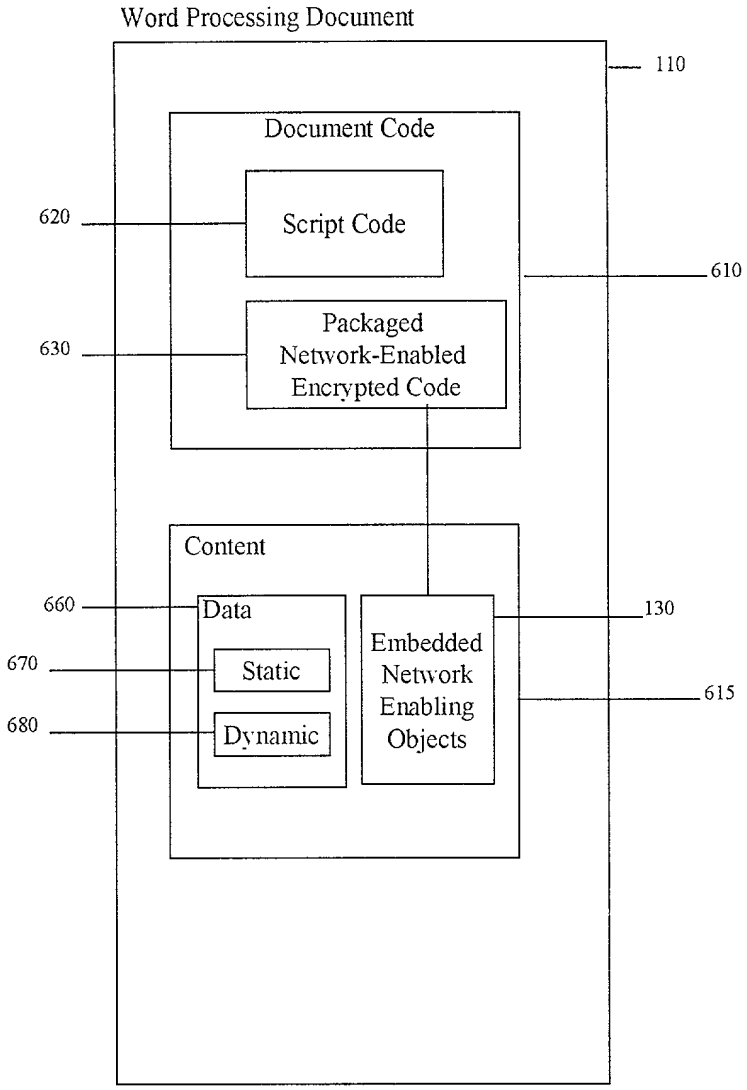
Word Processing Document
110
Document Code
Script Code
620
610
Packaged
Network-Enabled
Encrypted Code
630
Content
660
Data
130
Embedded
Network
Enabling
Objects
670
Static
615
680
Dynamic

FIG. 6

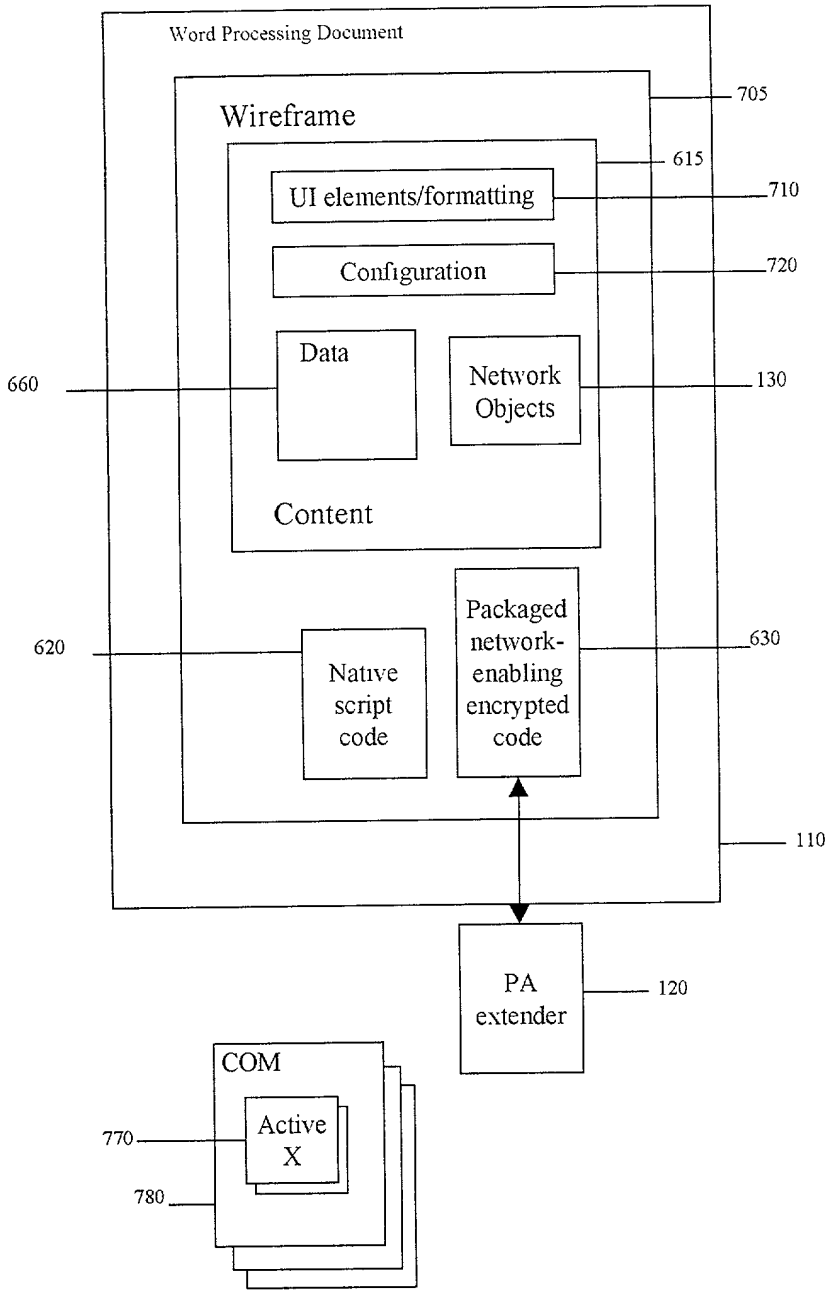
Word Processing Document
Wireframe
705
615
UI elements/formatting
710
Configuration
720
Data
660
Network Objects
130
Content
Packaged network-enabling encrypted code
620
Native script code
630
110
PA extender
120
COM
Active X
770
780

FIG. 7A

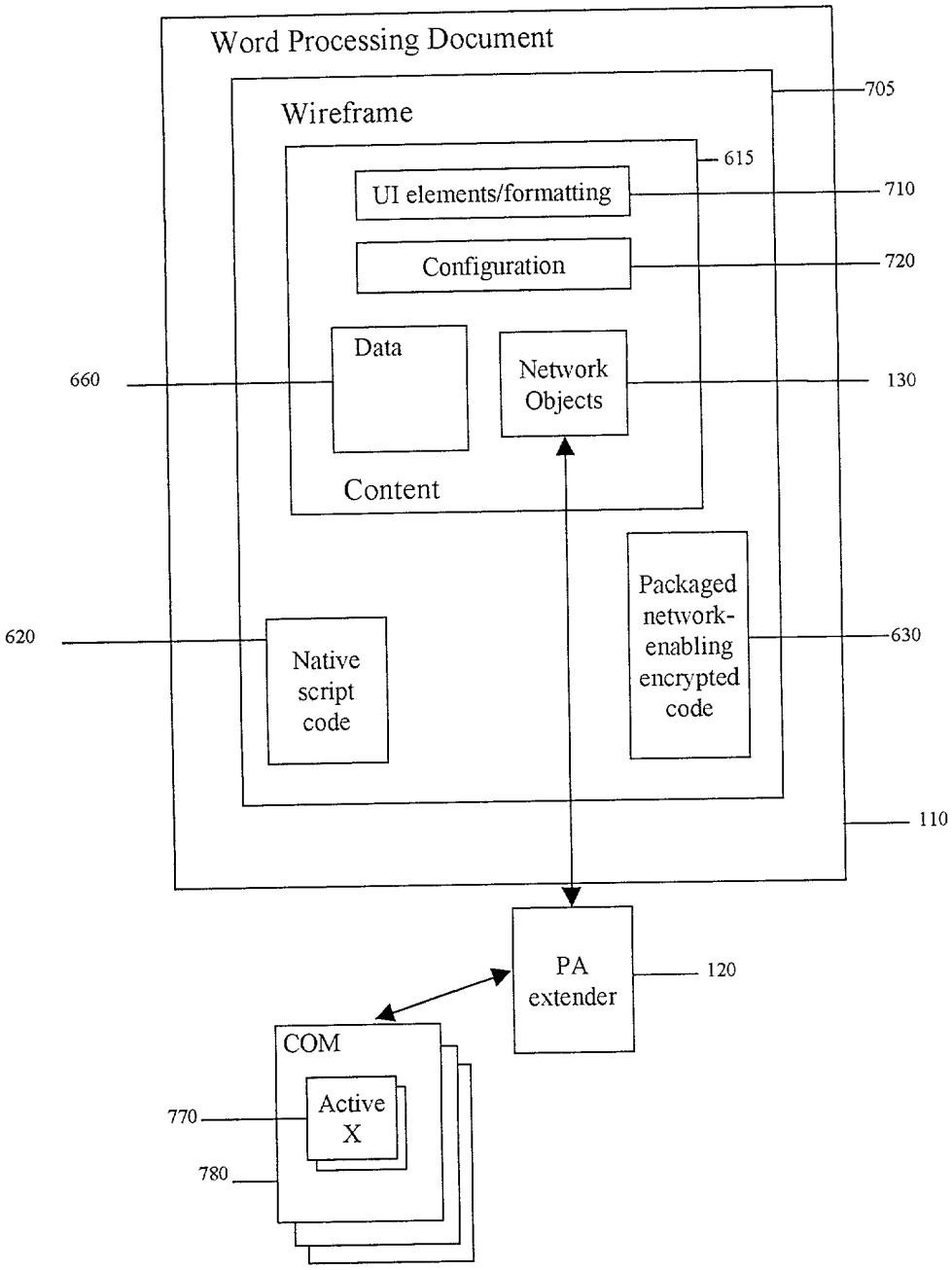
Word Processing Document
Wireframe
705
615
UI elements/formatting
710
Configuration
720
Data
Network Objects
660
130
Content
Packaged network-enabling encrypted code
620
Native script code
630
110
PA extender
120
COM
Active X
770
780

FIG. 7B

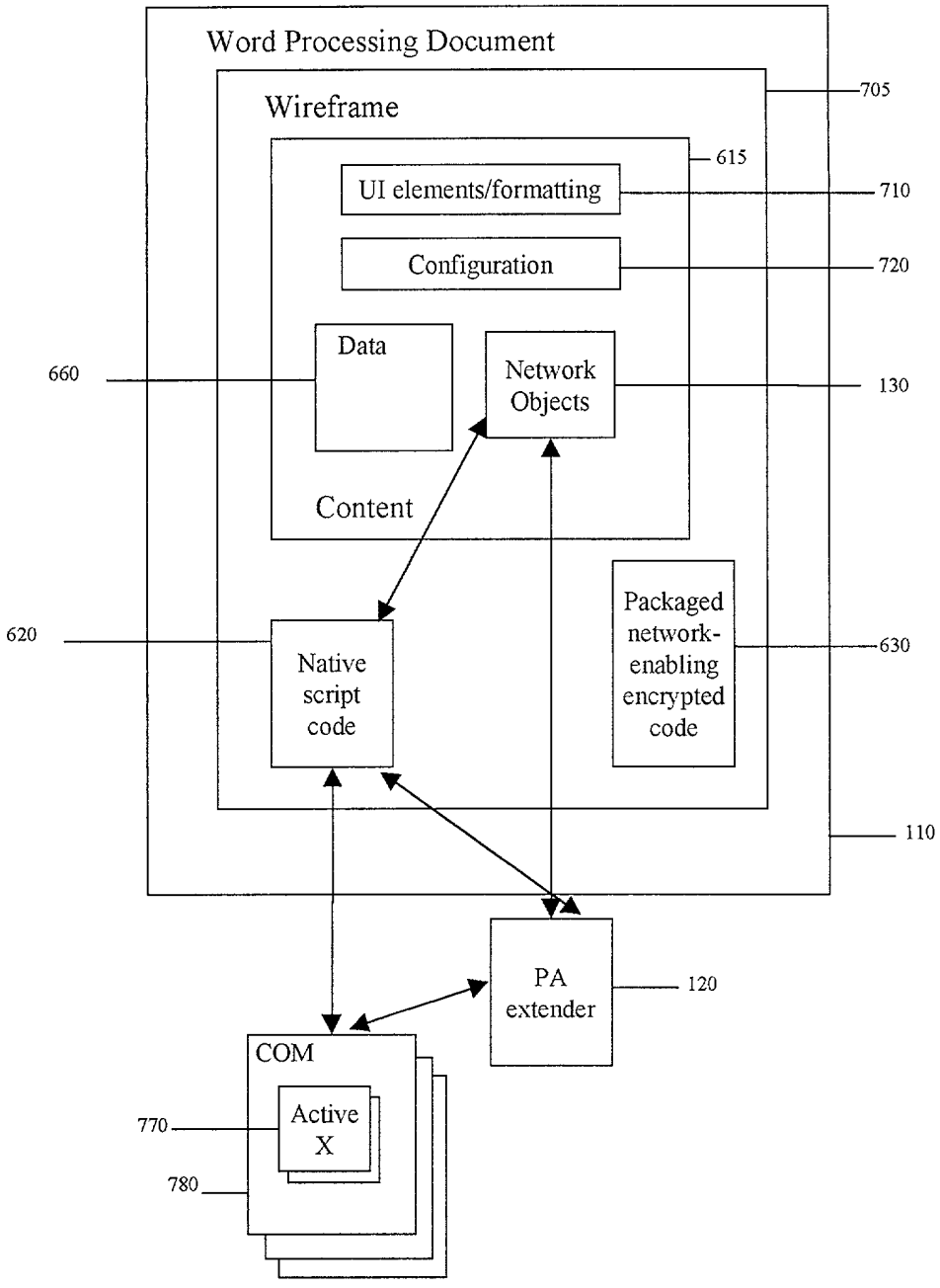
Word Processing Document
Wireframe
705
615
UI elements/formatting
710
Configuration
720
Data
660
Network Objects
130
Content
620
Native script code
Packaged network-enabling encrypted code
630
110
PA extender
120
COM
Active X
770
780

FIG. 7C

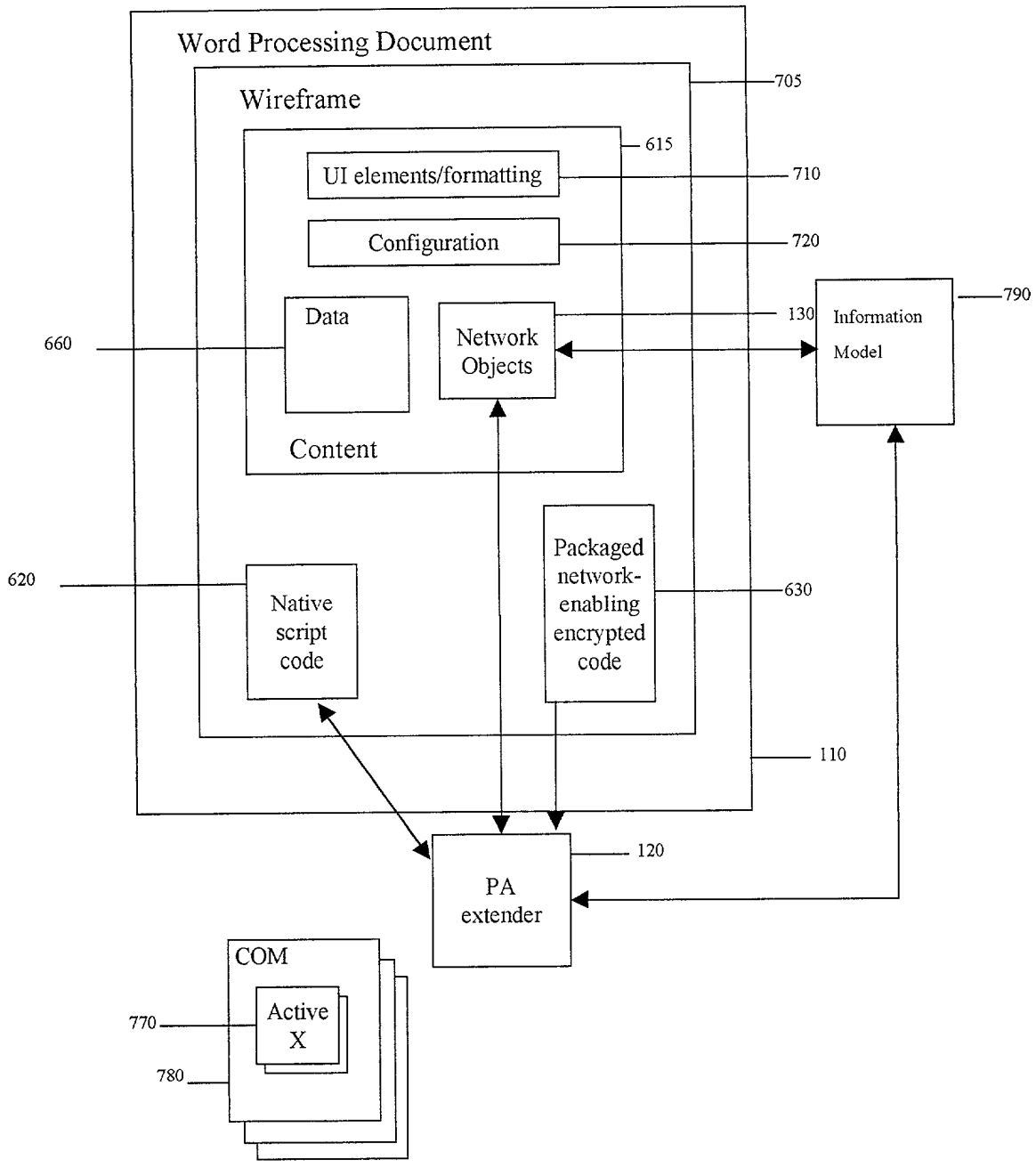
Word Processing Document
Wireframe
705
615
UI elements/formatting
710
Configuration
720
Data
Network Objects
130
Information Model
790
660
Content
Packaged network-enabling encrypted code
620
Native script code
630
110
120
PA extender
COM
Active X
770
780

FIG. 7D

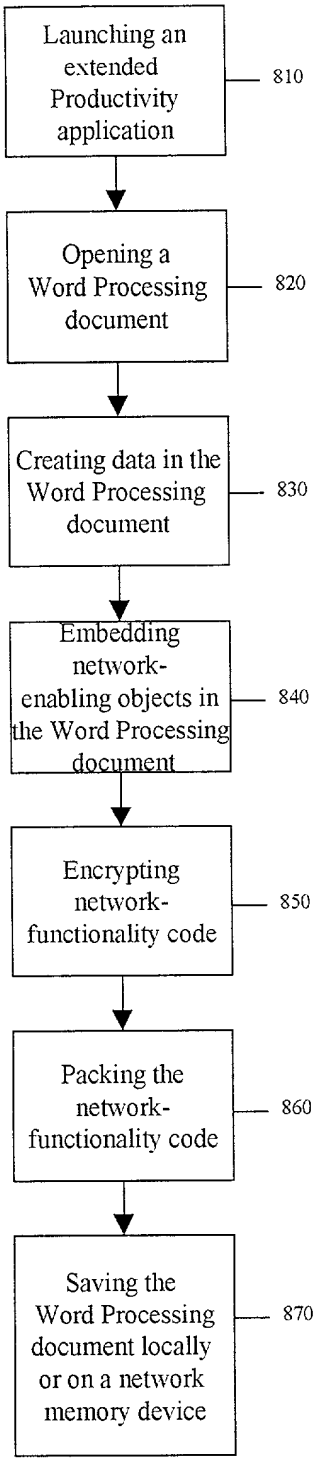
Launching an extended Productivity application
810
Opening a Word Processing document
820
Creating data in the Word Processing document
830
Embedding network-enabling objects in the Word Processing document
840
Encrypting network-functionality code
850
Packing the network-functionality code
860
Saving the Word Processing document locally or on a network memory device
870

FIG. 8

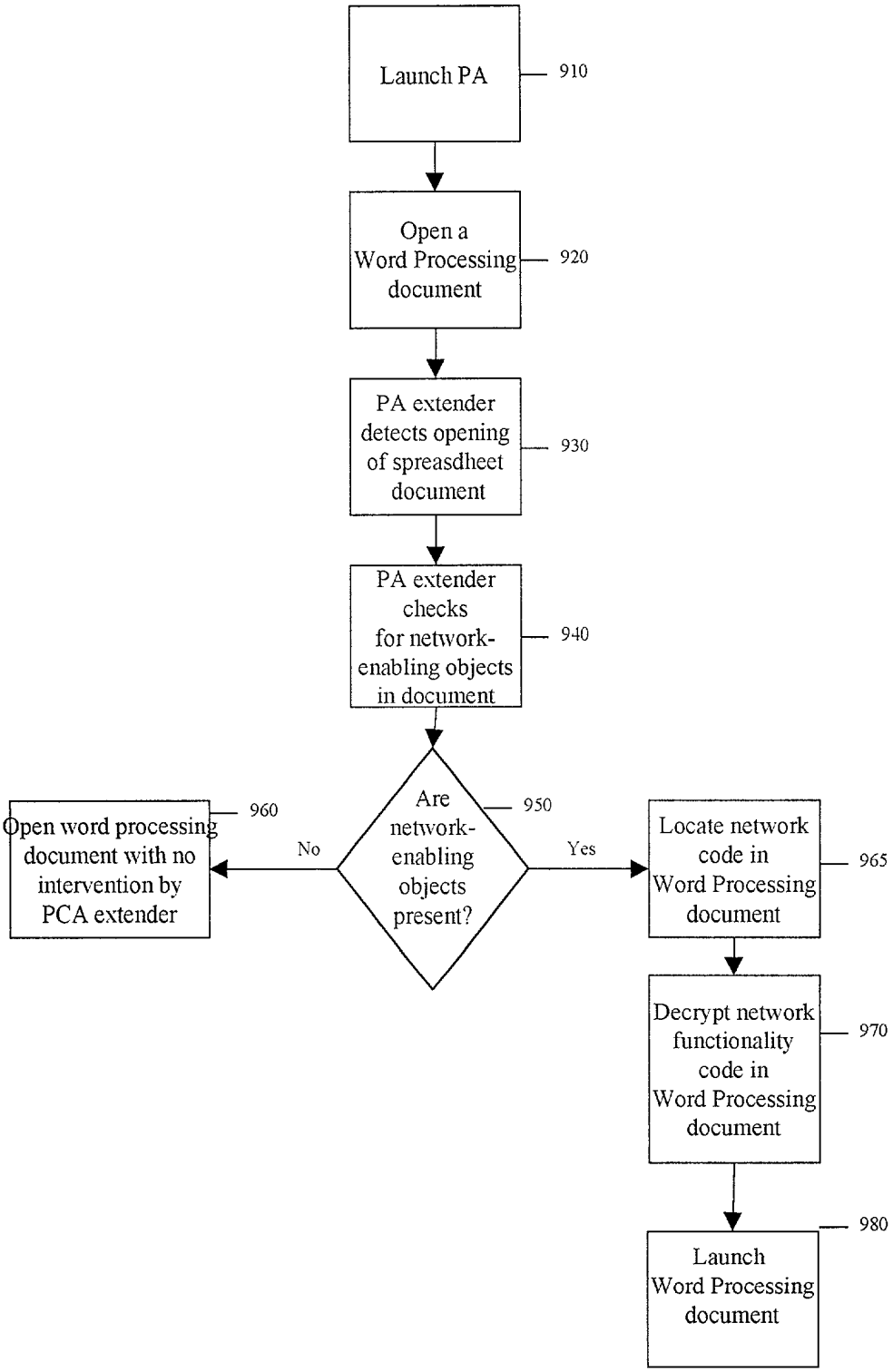
Launch PA
910
Open a Word Processing document
920
PA extender detects opening of spreasdheet document
930
PA extender checks for network-enabling objects in document
940
Are network-enabling objects present?
950
No
Yes
Open word processing document with no intervention by PCA extender
960
Locate network code in Word Processing document
965
Decrypt network functionality code in Word Processing document
970
Launch Word Processing document
980

FIG. 9

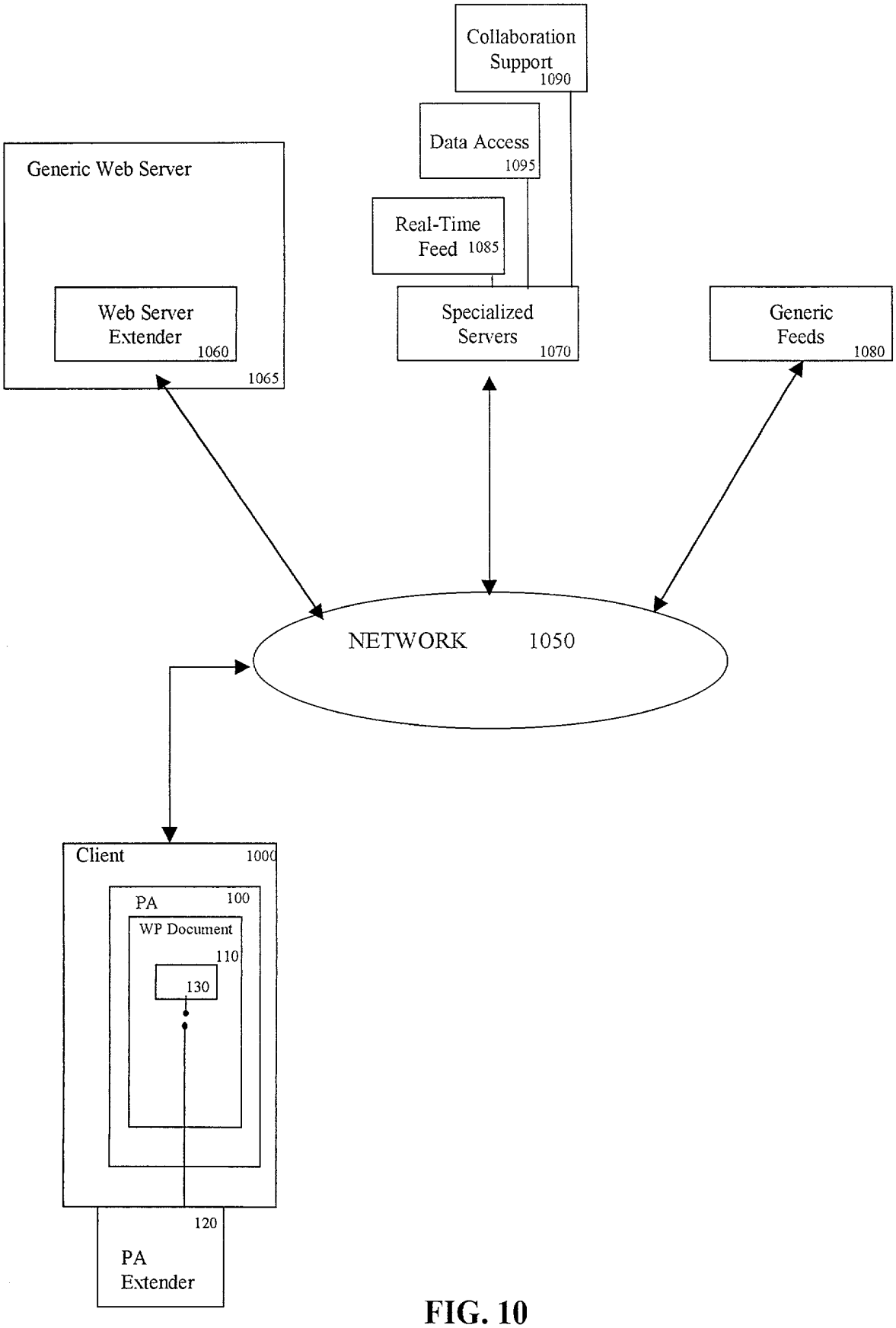
Collaboration Support 1090
Data Access 1095
Real-Time Feed 1085
Generic Web Server
Web Server Extender 1060
1065
Specialized Servers 1070
Generic Feeds 1080
NETWORK 1050
Client 1000
PA 100
WP Document
110
130
120
PA Extender

FIG. 10

1112

1110

Instance data	Population	Data	Goes	Here
Instance data				
Instance data				
Instance data				

FIG. 11A

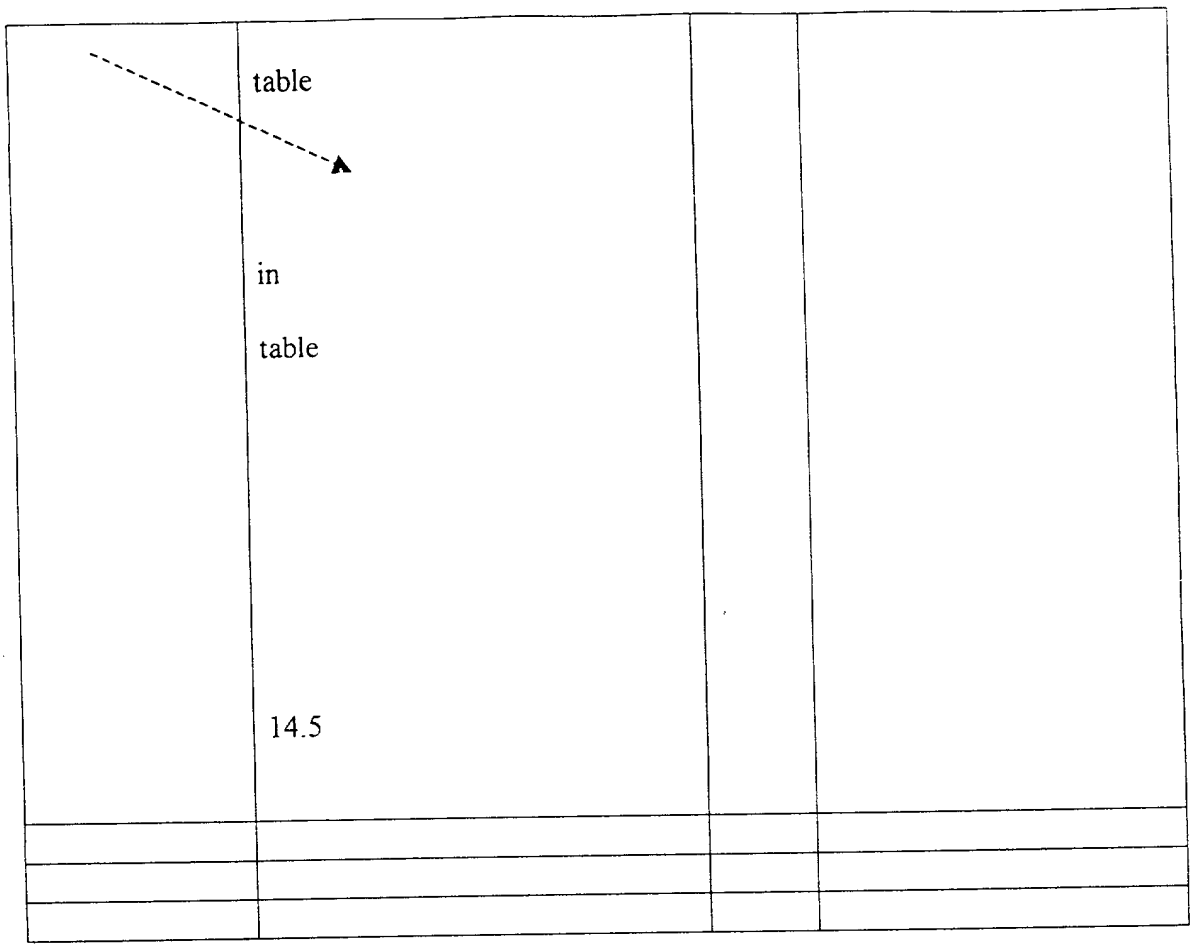

FIG. 11B

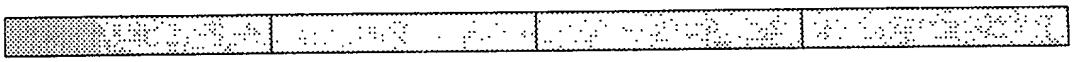

FIG. 11C

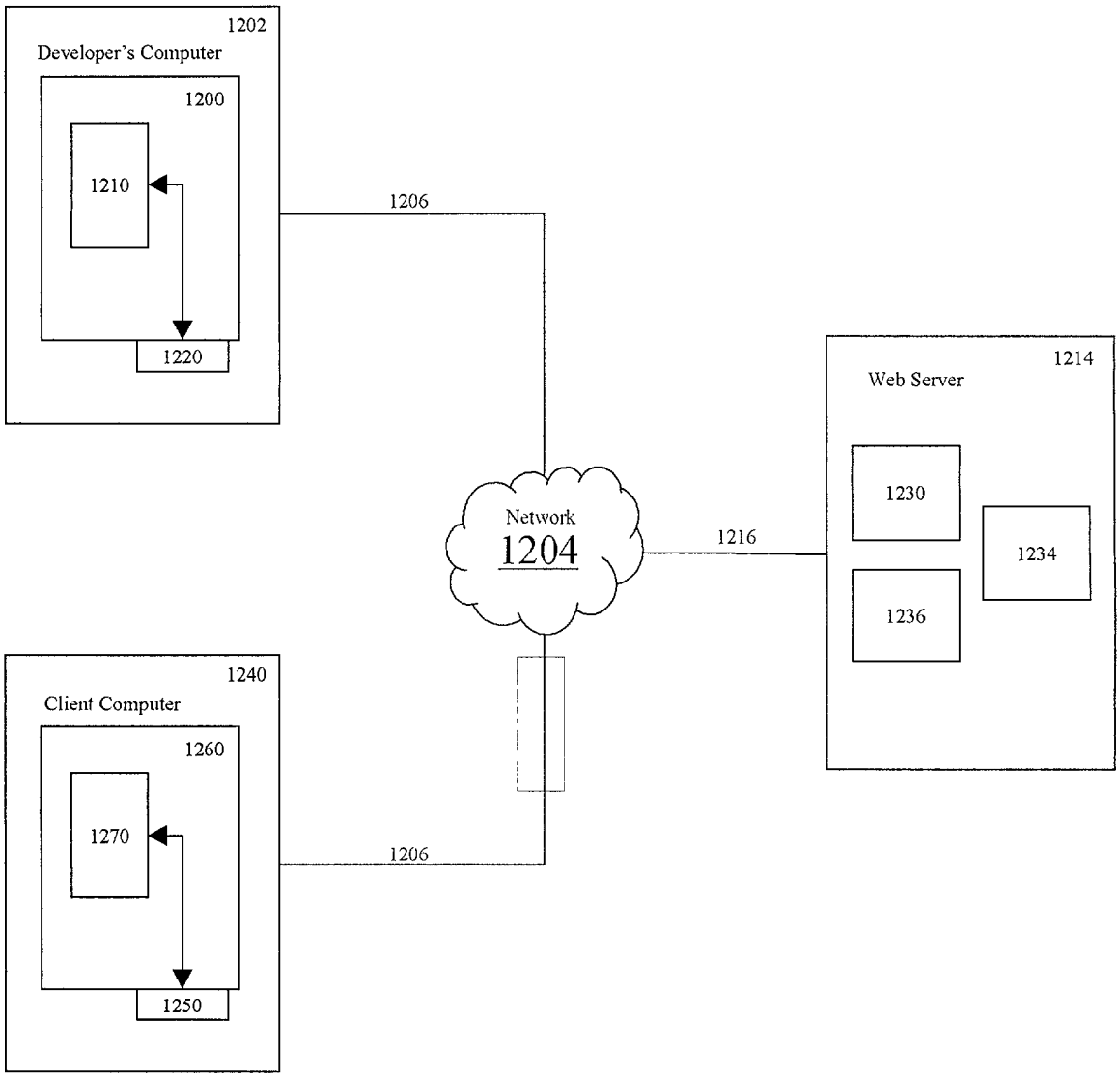
1202
Developer's Computer
1200
1210
1220
1206
1214
Web Server
1230
1234
1236
Network
1204
1216
1240
Client Computer
1260
1270
1250
1206

FIG. 12

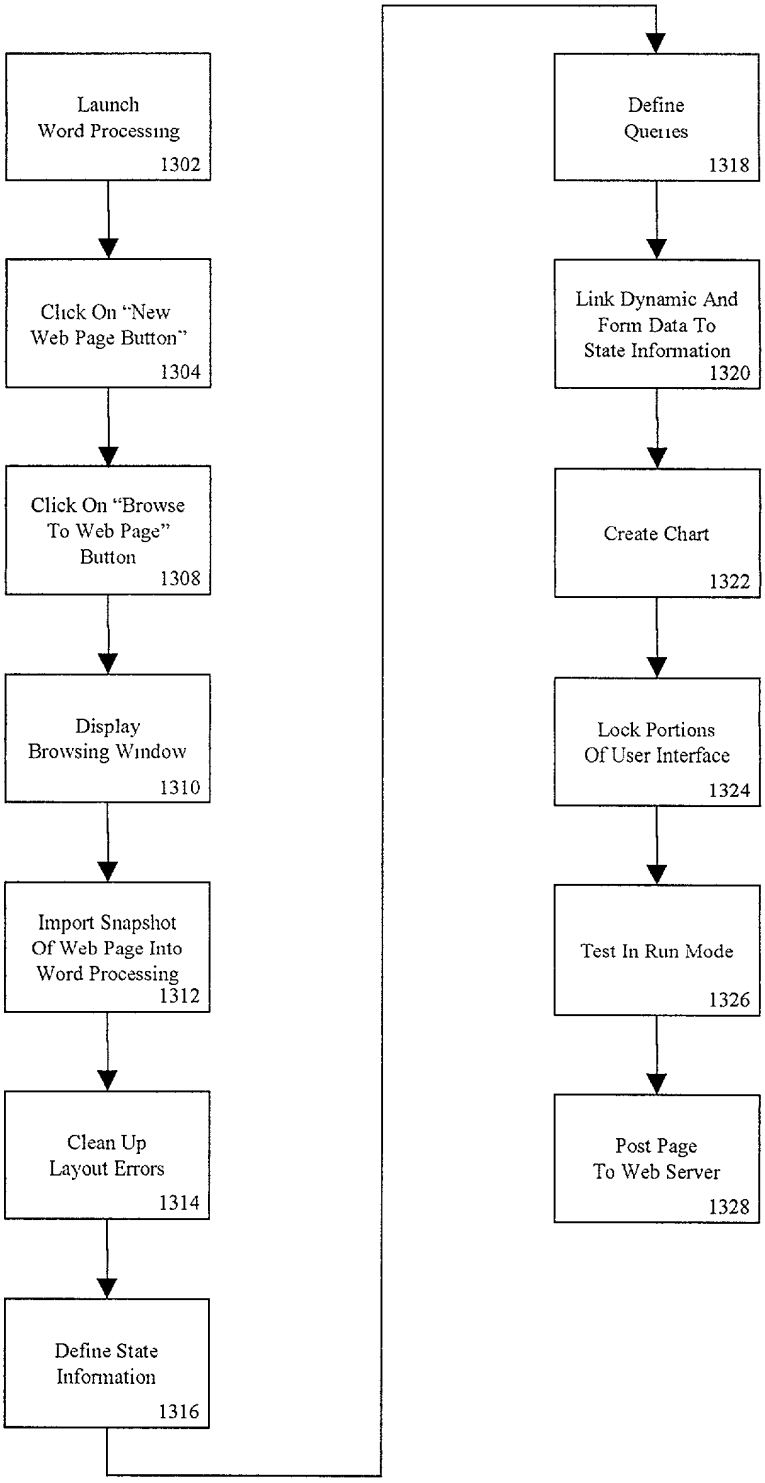
Launch Word Processing 1302
Click On "New Web Page Button" 1304
Click On "Browse To Web Page" Button 1308
Display Browsing Window 1310
Import Snapshot Of Web Page Into Word Processing 1312
Clean Up Layout Errors 1314
Define State Information 1316
Define Queries 1318
Link Dynamic And Form Data To State Information 1320
Create Chart 1322
Lock Portions Of User Interface 1324
Test In Run Mode 1326
Post Page To Web Server 1328

FIG. 13

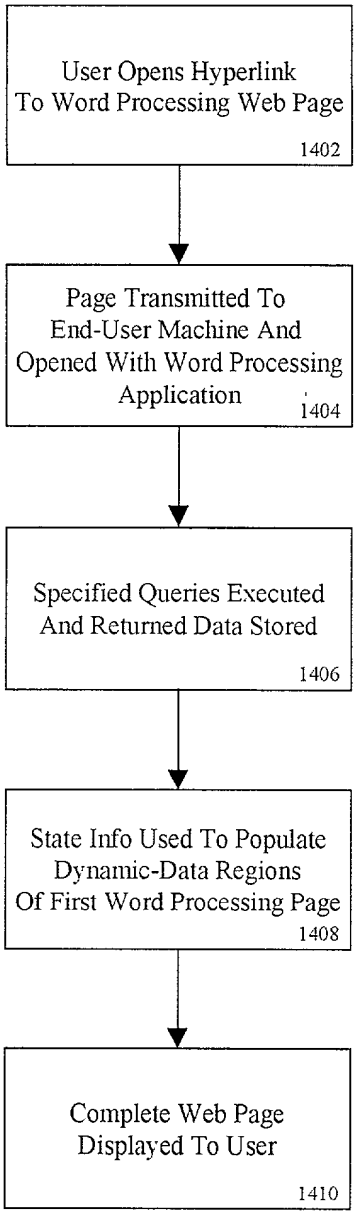
User Opens Hyperlink To Word Processing Web Page
1402
Page Transmitted To End-User Machine And Opened With Word Processing Application
1404
Specified Queries Executed And Returned Data Stored
1406
State Info Used To Populate Dynamic-Data Regions Of First Word Processing Page
1408
Complete Web Page Displayed To User
1410

FIG. 14

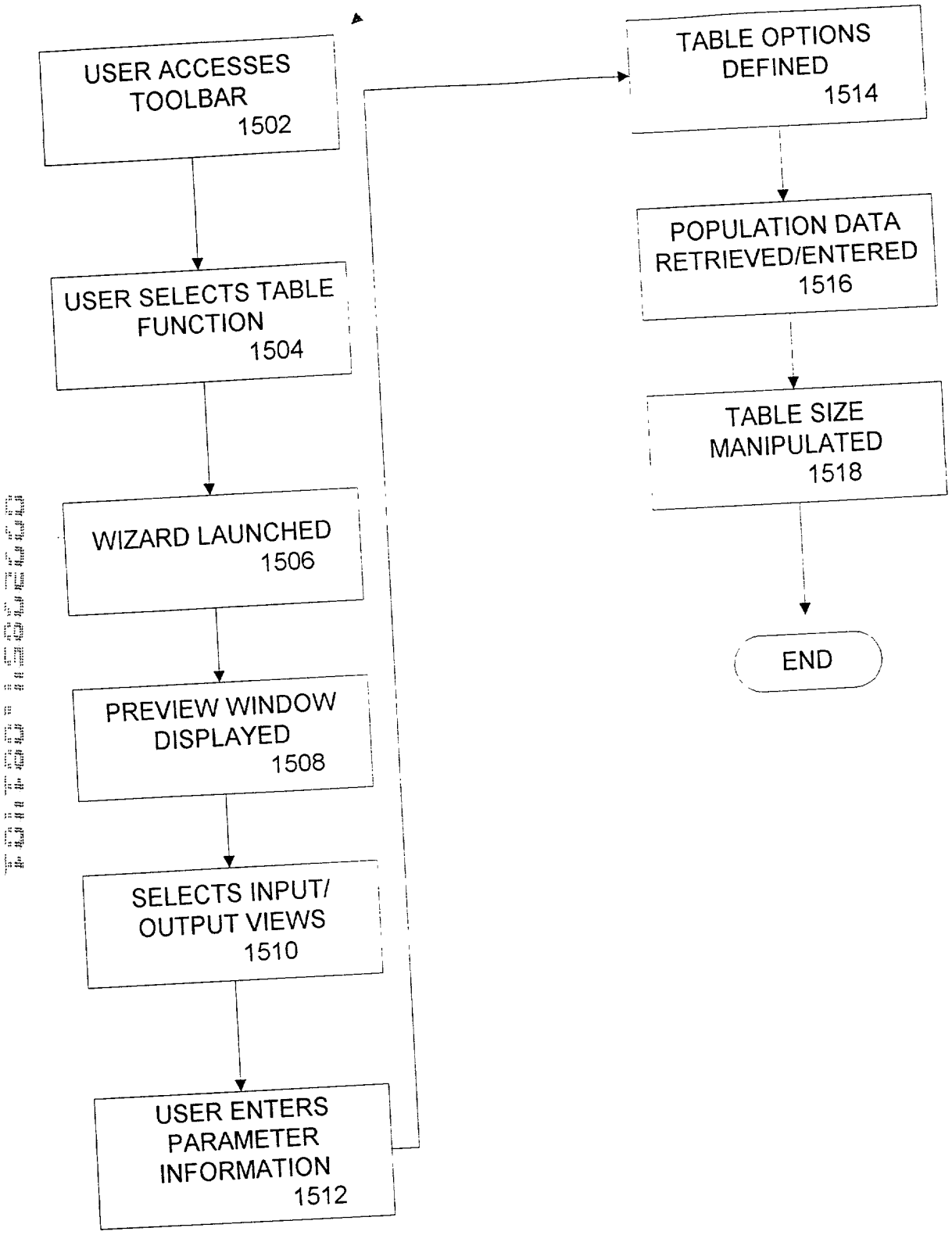
1500
USER ACCESSES TOOLBAR 1502
USER SELECTS TABLE FUNCTION 1504
WIZARD LAUNCHED 1506
PREVIEW WINDOW DISPLAYED 1508
SELECTS INPUT/ OUTPUT VIEWS 1510
USER ENTERS PARAMETER INFORMATION 1512
TABLE OPTIONS DEFINED 1514
POPULATION DATA RETRIEVED/ENTERED 1516
TABLE SIZE MANIPULATED 1518
END

FIG. 15

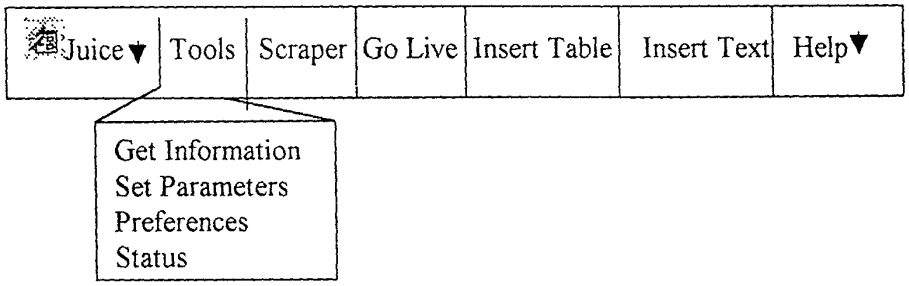
Juice
Tools
Scraper
Go Live
Insert Table
Insert Text
Help
Get Information
Set Parameters
Preferences
Status

FIG. 16A

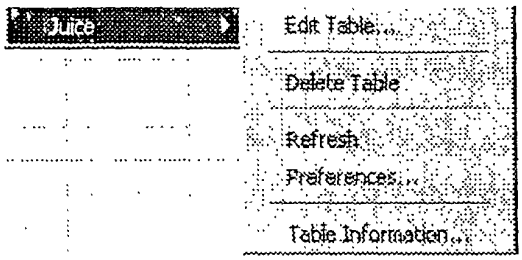
Juice
Edit Table...
Delete Table
Refresh
Preferences...
Table Information...

FIG. 16B

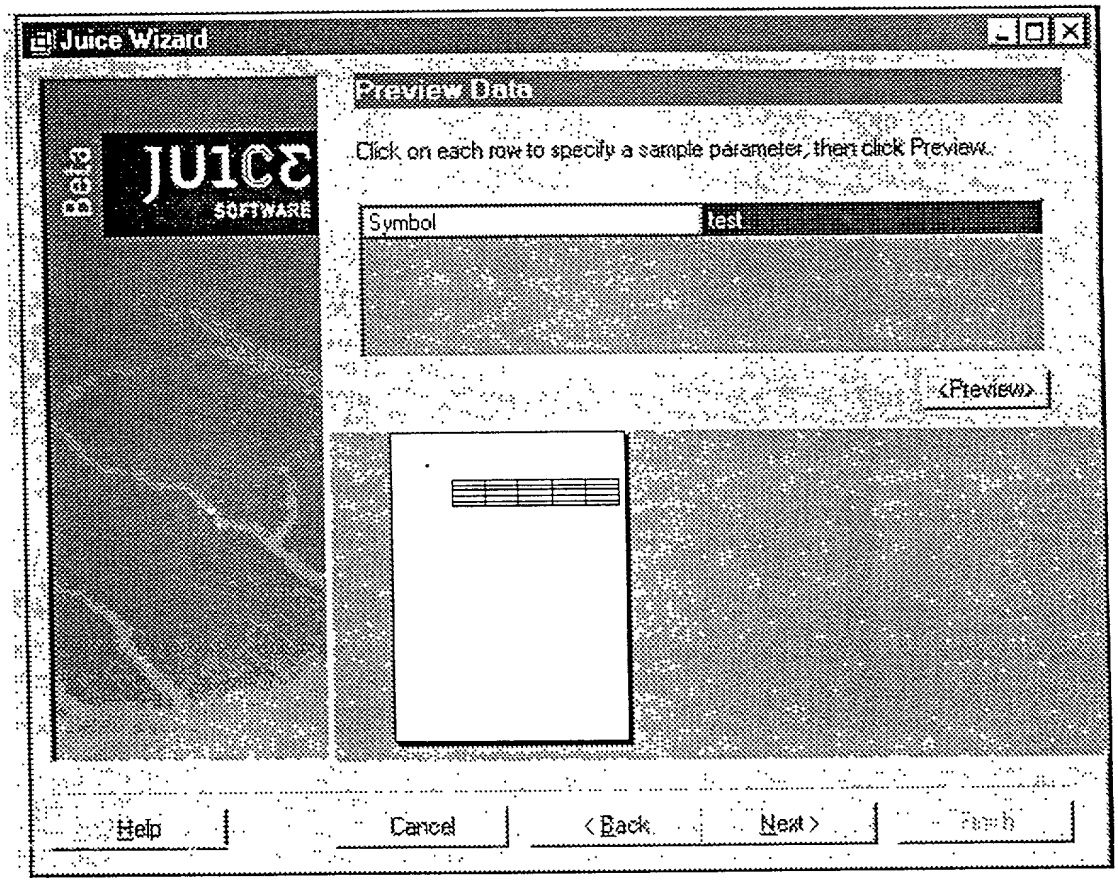
Juice Wizard
Beta
JUICE
SOFTWARE
Preview Data
Click on each row to specify a sample parameter, then click Preview.
Symbol
test
<Preview>
Help
Cancel
< Back
Next >
Finish

FIG. 16C

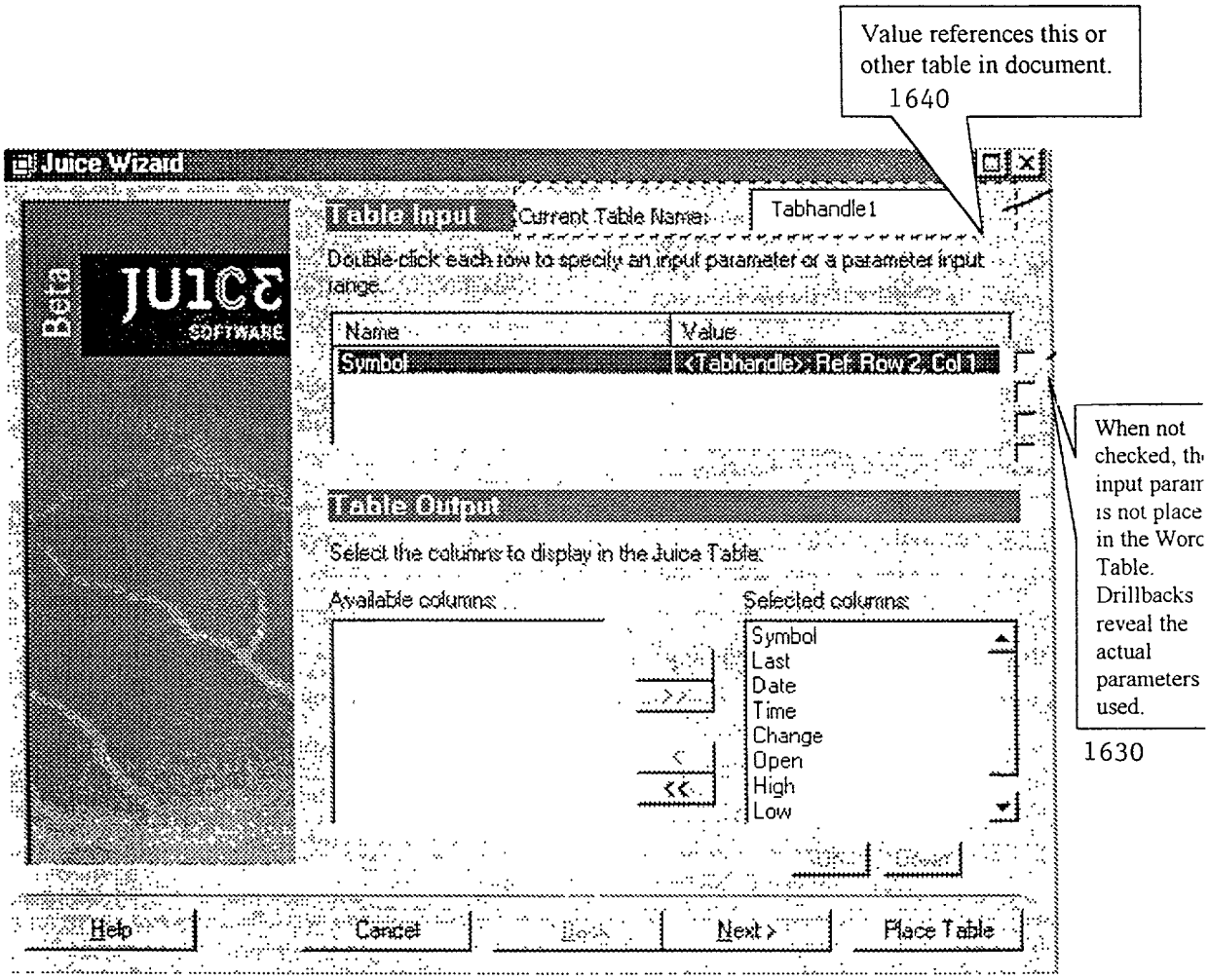
Value references this or other table in document.
1640
Juice Wizard
Beta
JUICE
SOFTWARE
Table Input
Current Table Name:
Tabhandle1
Double-click each row to specify an input parameter or a parameter input range.
Name
Value
Symbol
<Tabhandle>.Ref.Row 2, Col 1
When not checked, th input param is not place in the Worc Table. Drillbacks reveal the actual parameters used.
1630
Table Output
Select the columns to display in the Juice Table.
Available columns:
Selected columns:
Symbol
Last
Date
Time
Change
Open
High
Low
Help
Cancel
Next >
Place Table

FIG. 16D

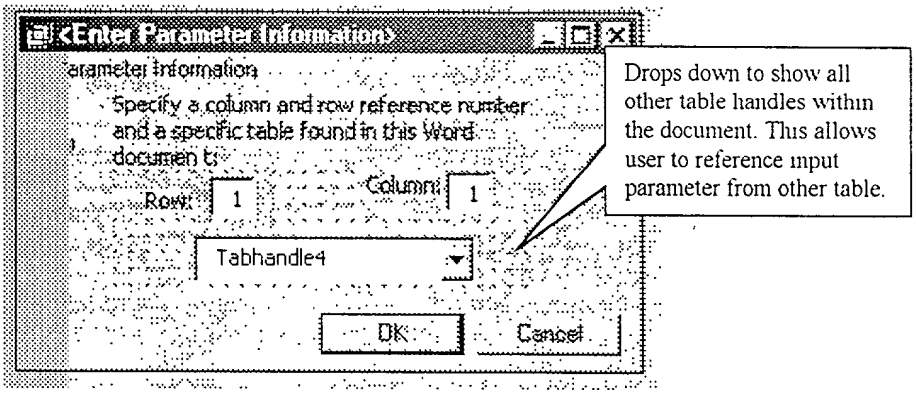
Enter Parameter Information
arameter Information
Specify a column and row reference number
and a specific table found in this Word
documen t:
Row:
1
Column:
1
Tabhandle4
OK
Cancel
Drops down to show all other table handles within the document. This allows user to reference input parameter from other table.

FIG. 16E

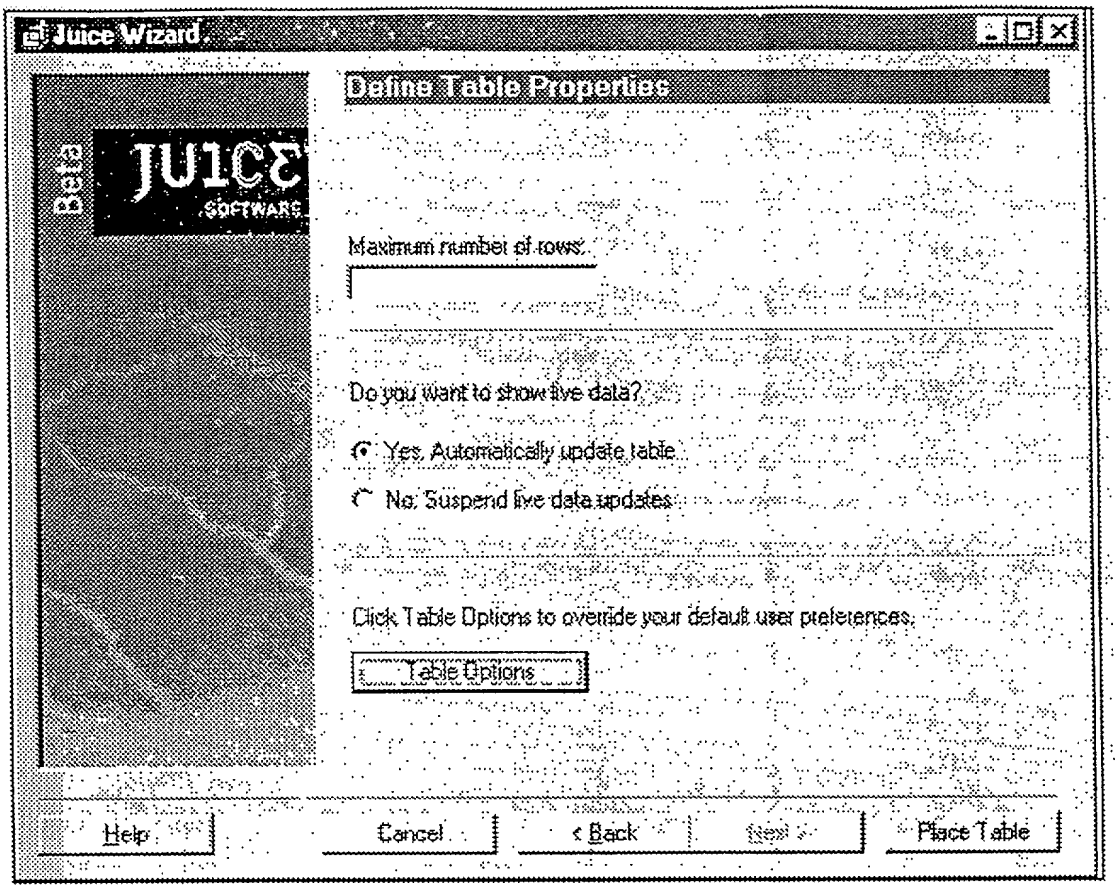
Juice Wizard
Define Table Properties
Beta
JUICE
SOFTWARE
Maximum number of rows:
Do you want to show live data?
Yes, Automatically update table
No, Suspend live data updates
Click Table Options to override your default user preferences.
Table Options
Help
Cancel
< Back
Next >
Place Table

FIG. 16F

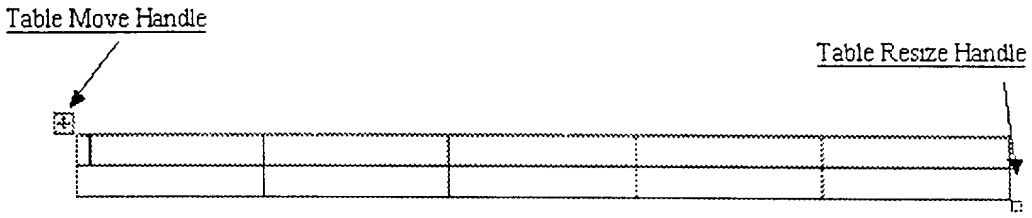

FIG. 16G

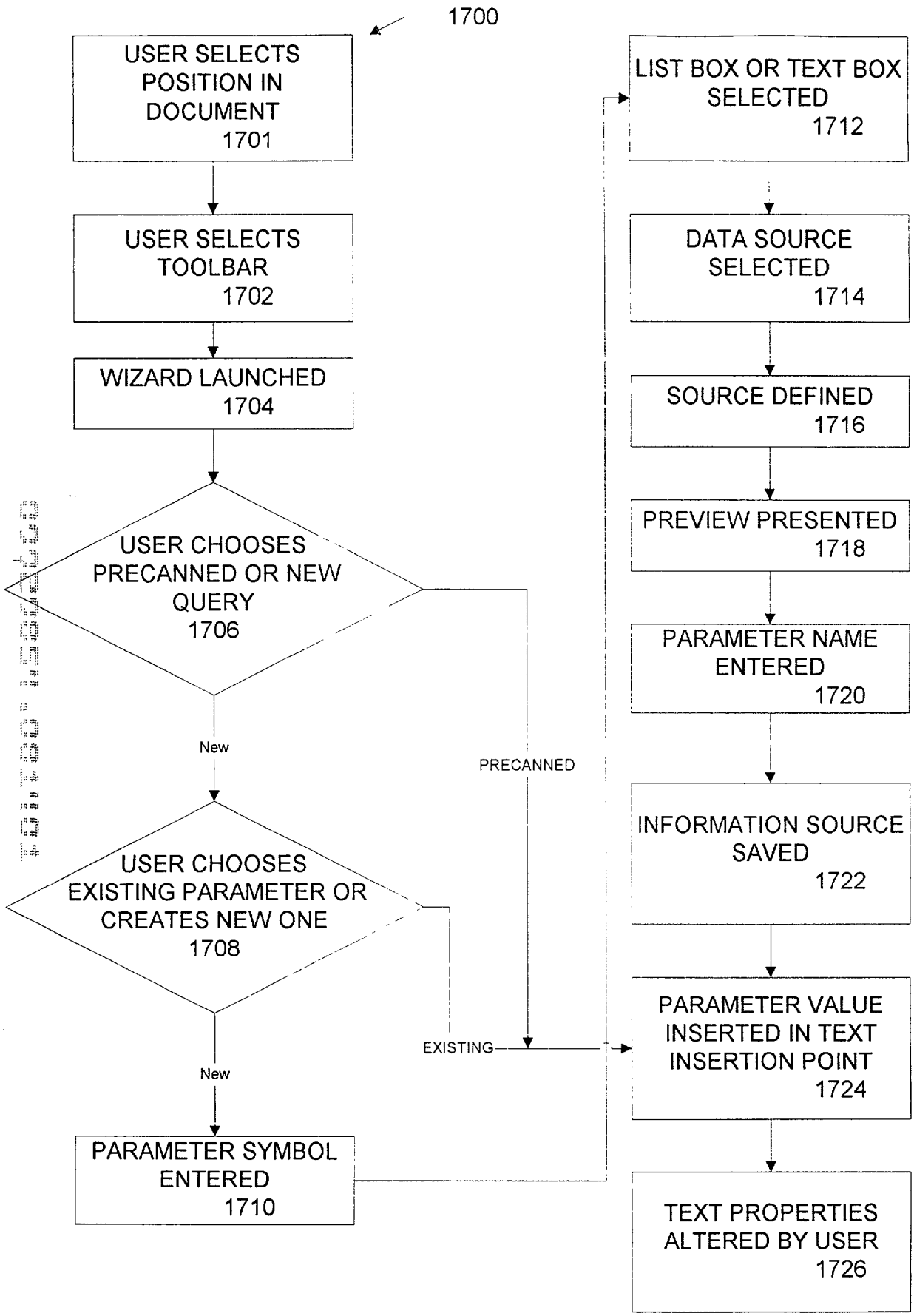
1700
USER SELECTS POSITION IN DOCUMENT 1701
USER SELECTS TOOLBAR 1702
WIZARD LAUNCHED 1704
USER CHOOSES PRECANNED OR NEW QUERY 1706
New
USER CHOOSES EXISTING PARAMETER OR CREATES NEW ONE 1708
New
PARAMETER SYMBOL ENTERED 1710
PRECANNED
EXISTING
LIST BOX OR TEXT BOX SELECTED 1712
DATA SOURCE SELECTED 1714
SOURCE DEFINED 1716
PREVIEW PRESENTED 1718
PARAMETER NAME ENTERED 1720
INFORMATION SOURCE SAVED 1722
PARAMETER VALUE INSERTED IN TEXT INSERTION POINT 1724
TEXT PROPERTIES ALTERED BY USER 1726

FIG. 17

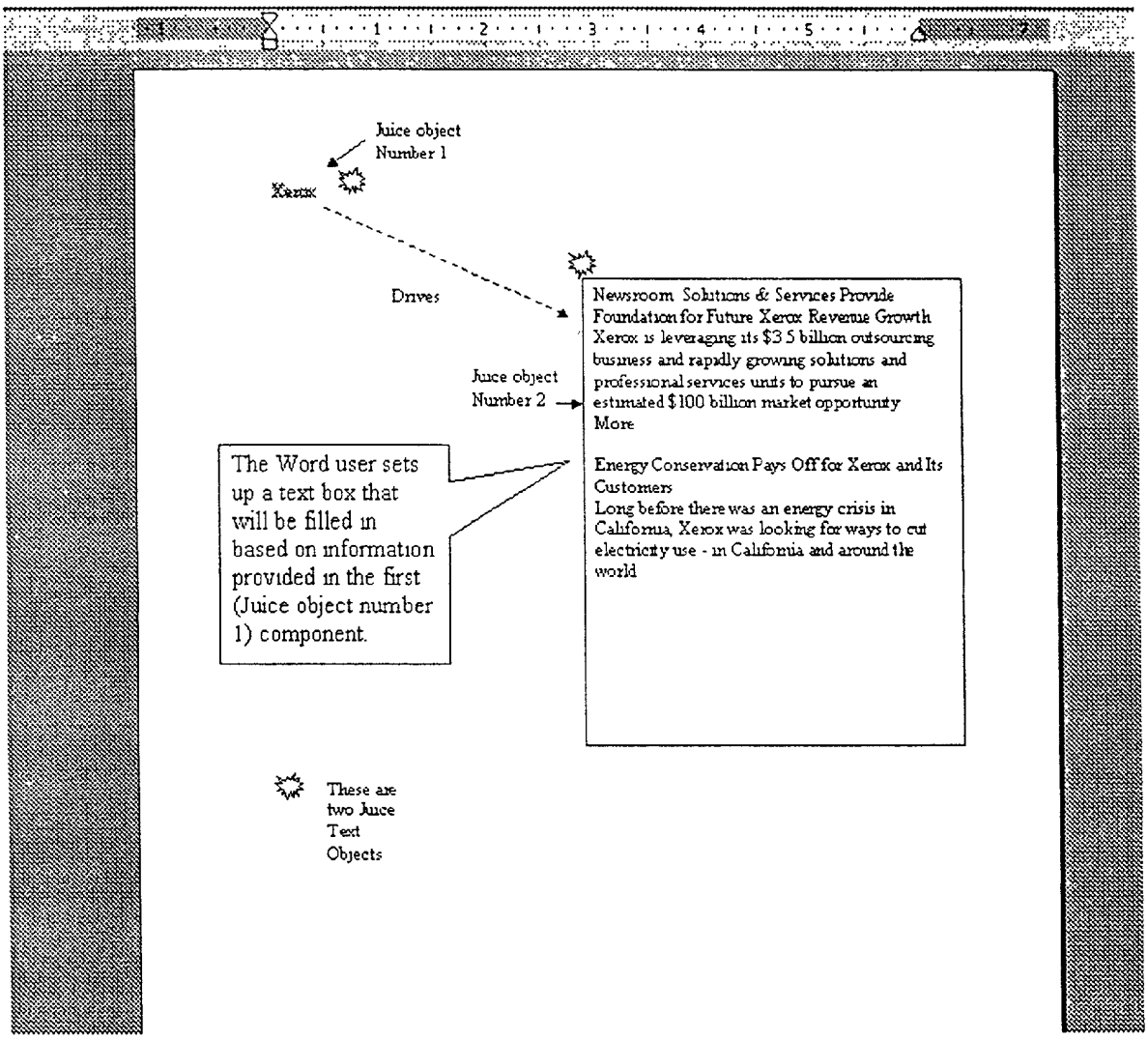
Juice object
Number 1
Xerox
Drives
Newsroom Solutions & Services Provide Foundation for Future Xerox Revenue Growth
Xerox is leveraging its $3 5 billion outsourcing business and rapidly growing solutions and professional services units to pursue an estimated $100 billion market opportunity
More
Juice object
Number 2
Energy Conservation Pays Off for Xerox and Its Customers
Long before there was an energy crisis in California, Xerox was looking for ways to cut electricity use - in California and around the world
The Word user sets up a text box that will be filled in based on information provided in the first (Juice object number 1) component.
These are two Juice Text Objects

FIG. 18A

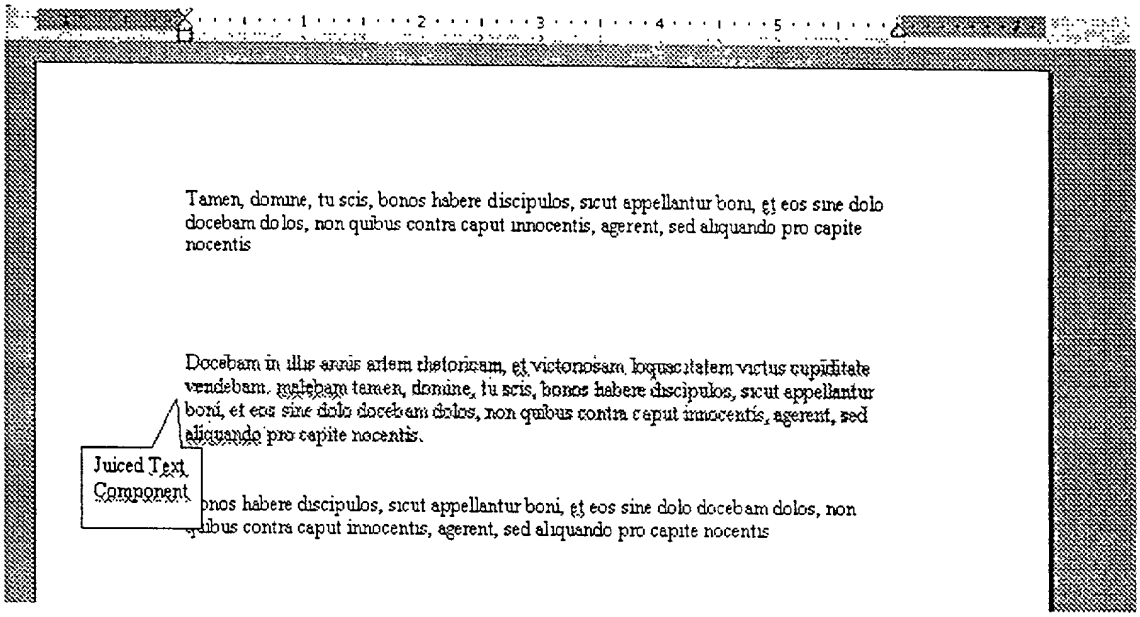
Tamen, domine, tu scis, bonos habere discipulos, sicut appellantur boni, et eos sine dolo docebam dolos, non quibus contra caput innocentis, agerent, sed aliquando pro capite nocentis
Docebam in illis annis artem rhetoricam, et victoriosam loquacitatem victus cupiditate vendebam. malebam tamen, domine, tu scis, bonos habere discipulos, sicut appellantur boni, et eos sine dolo docebam dolos, non quibus contra caput innocentis, agerent, sed aliquando pro capite nocentis.
Juiced Text Component
bonos habere discipulos, sicut appellantur boni, et eos sine dolo docebam dolos, non quibus contra caput innocentis, agerent, sed aliquando pro capite nocentis

FIG. 18B

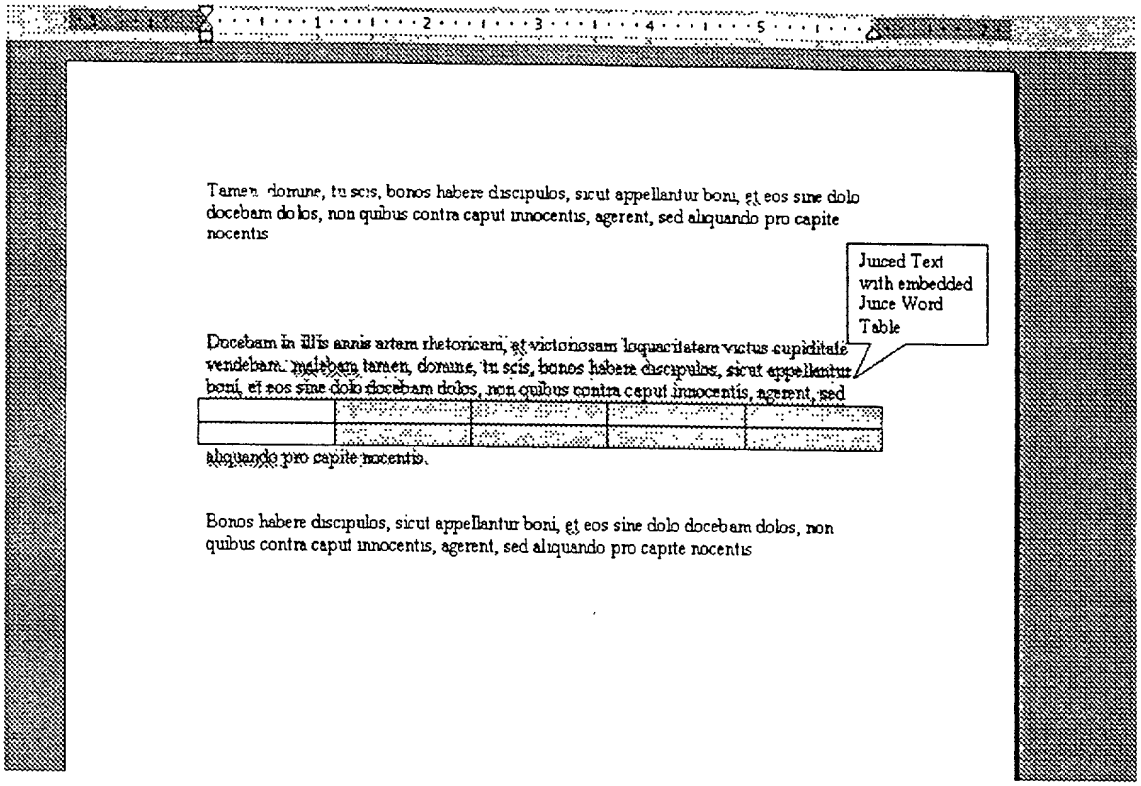
Tamen domine, tu scis, bonos habere discipulos, sicut appellantur boni, et eos sine dolo docebam dolos, non quibus contra caput innocentis, agerent, sed aliquando pro capite nocentis
Junced Text with embedded Junce Word Table
Docebam in illis annis artem rhetoricam, et victoriosam loquacitatem victus cupiditate vendebam. malebam tamen, domine, tu scis, bonos habere discipulos, sicut appellantur boni, et eos sine dolo docebam dolos, non quibus contra caput innocentis, agerent, sed
aliquando pro capite nocentis.
Bonos habere discipulos, sicut appellantur boni, et eos sine dolo docebam dolos, non quibus contra caput innocentis, agerent, sed aliquando pro capite nocentis

FIG. 18C

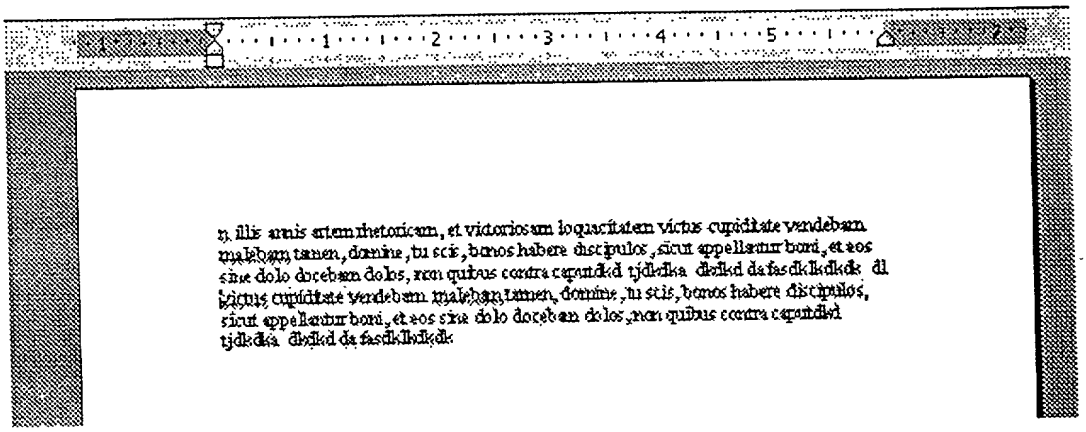
n illis annis artem rhetoricam, et victoriosam loquacitatem victus cupiditate vendebam
malebam tamen, domine, tu scis, bonos habere discipulos, sicut appellantur boni, et eos
sine dolo docebam dolos, non quibus contra capitalia tjdkdka dkdkd dafasdkdkdkdk dl
victus cupiditate vendebam malebam tamen, domine, tu scis, bonos habere discipulos,
sicut appellantur boni, et eos sine dolo docebam dolos, non quibus contra capitalia
tjdkdka dkdkd dafasdkdkdkdk

FIG. 18D

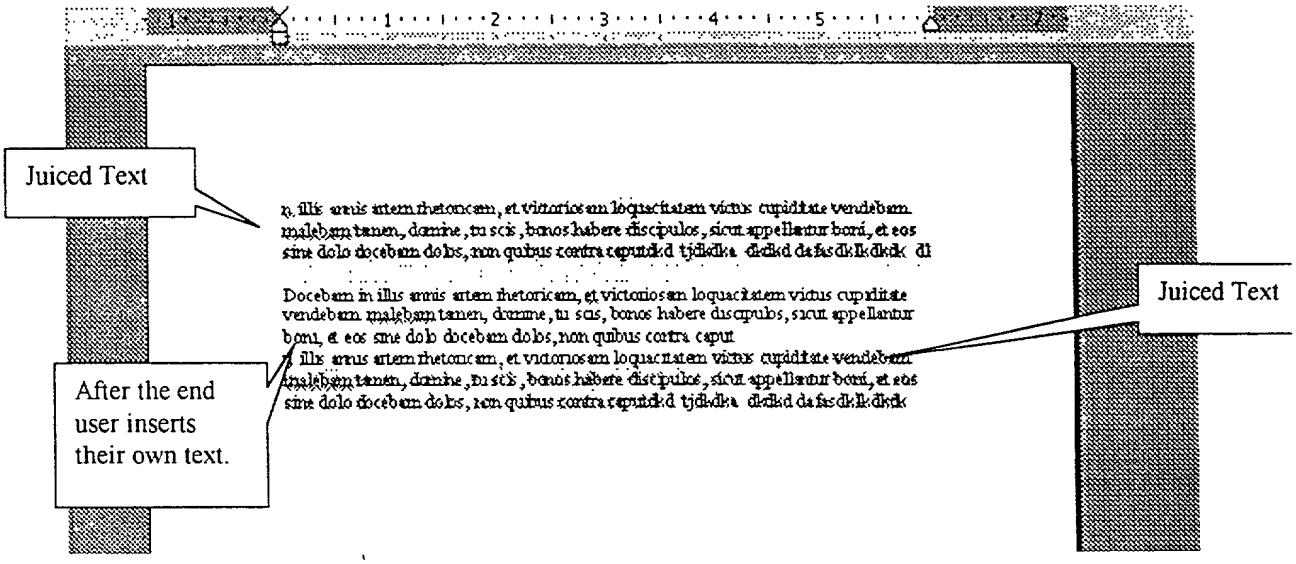
Juiced Text
Docebam in illis annis artem rhetoricam, et victoriosam loquacitatem vicus cupiditate vendebam. malebam tamen, domine, tu scis, bonos habere discipulos, sicut appellantur boni, et eos sine dolo docebam dolos, non quibus contra caput
Juiced Text
After the end user inserts their own text.

FIG. 18E

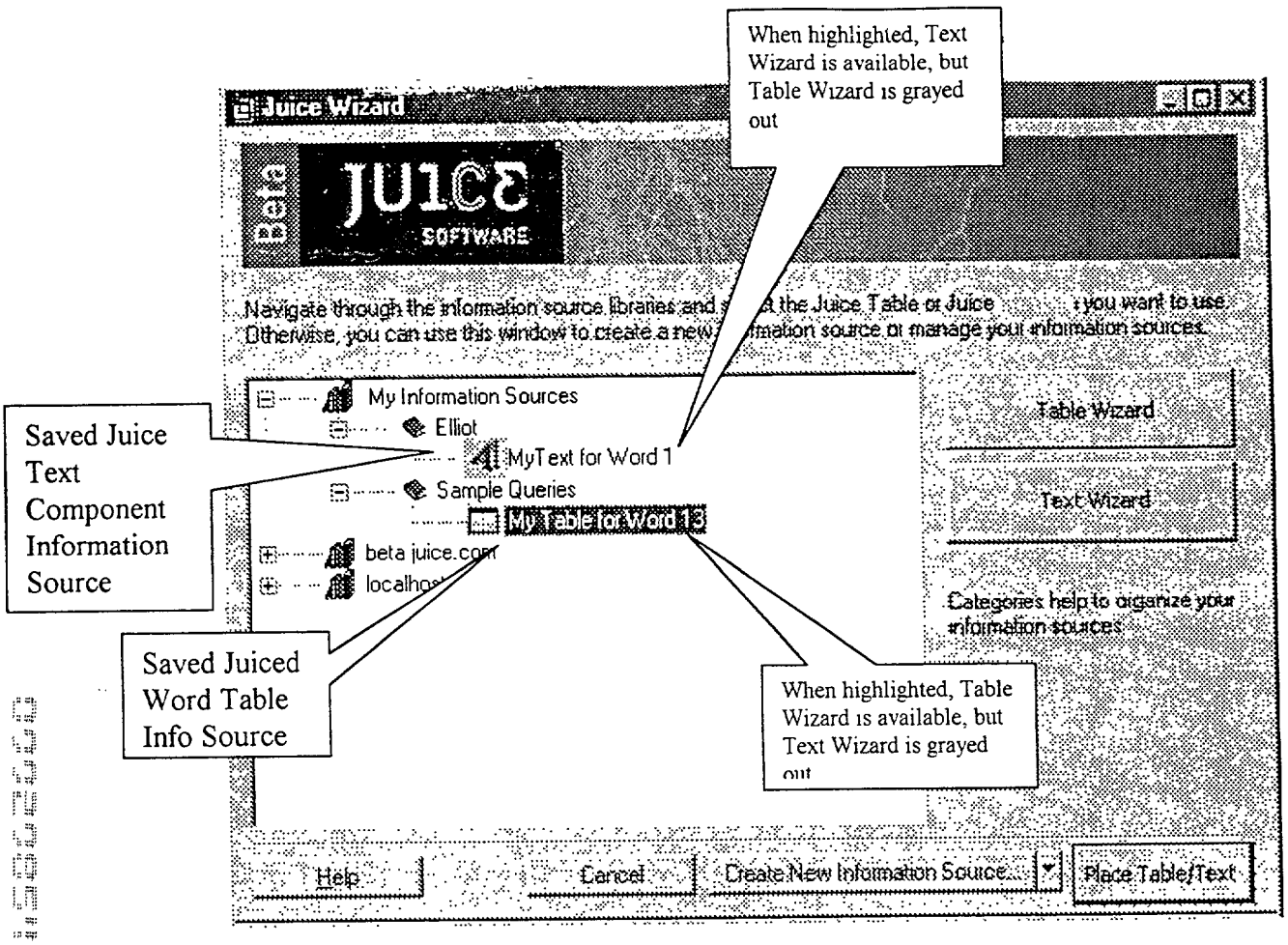
When highlighted, Text Wizard is available, but Table Wizard is grayed out
Juice Wizard
Beta
JUICE
SOFTWARE
Navigate through the information source libraries and
the Juice Table or Juice
you want to use.
Otherwise, you can use this window to create a new
mation source or manage your information sources.
My Information Sources
Elliot
MyText for Word 1
Sample Queries
My Table for Word 13
beta juice.com
localhost
Table Wizard
Text Wizard
Categories help to organize your information sources
Saved Juice Text Component Information Source
Saved Juiced Word Table Info Source
When highlighted, Table Wizard is available, but Text Wizard is grayed out
Help
Cancel
Create New Information Source...
Place Table/Text

FIG. 18F

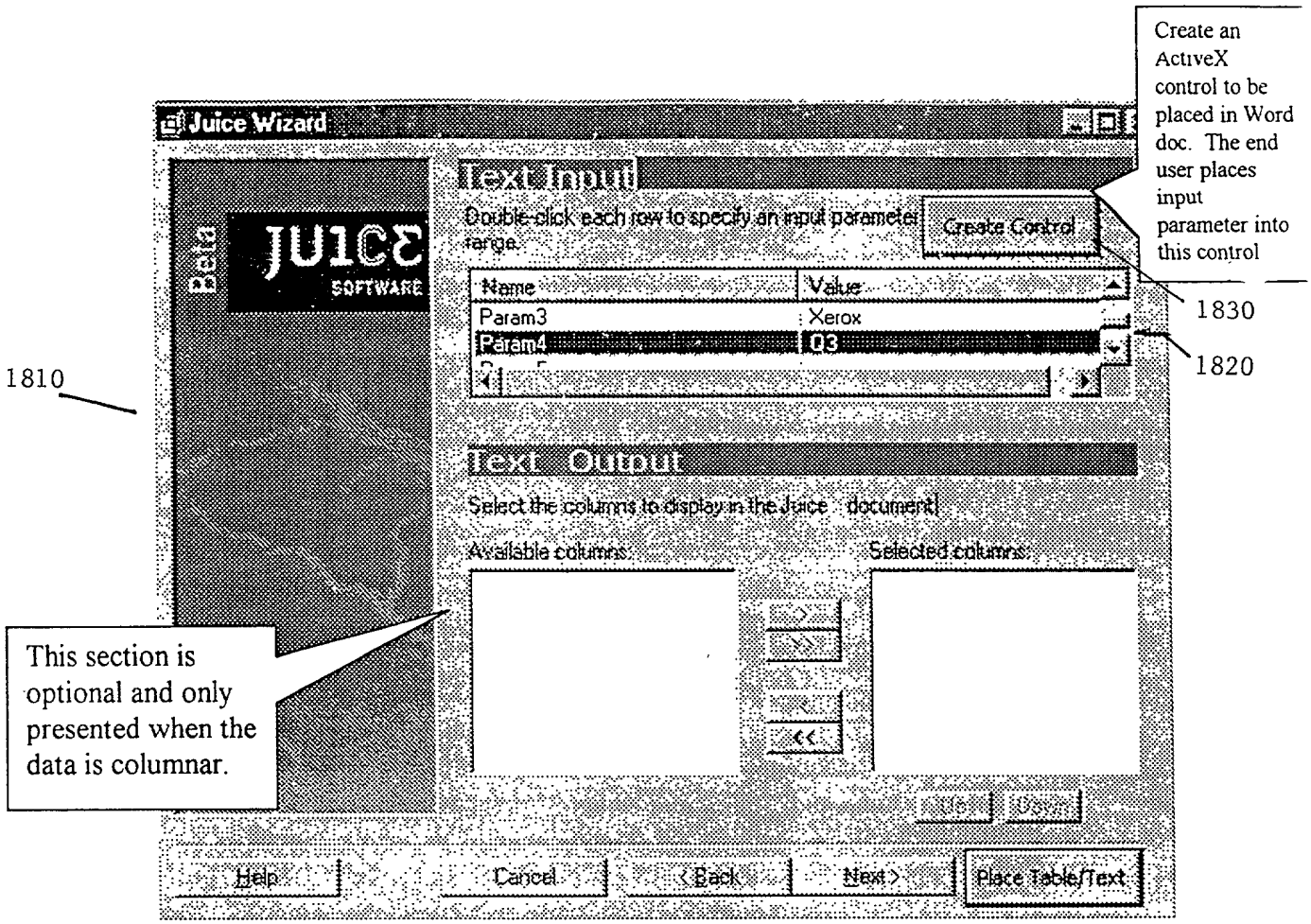
Juice Wizard
Beta
JUICE
SOFTWARE
Text Input
Double-click each row to specify an input parameter range.
Create Control
Name
Value
Param3
Xerox
Param4
03
1810
1820
1830
Text Output
Select the columns to display in the Juice document.
Available columns:
Selected columns:
This section is optional and only presented when the data is columnar.
Help
Cancel
< Back
Next >
Place Table/Text
Create an ActiveX control to be placed in Word doc. The end user places input parameter into this control

FIG. 18G

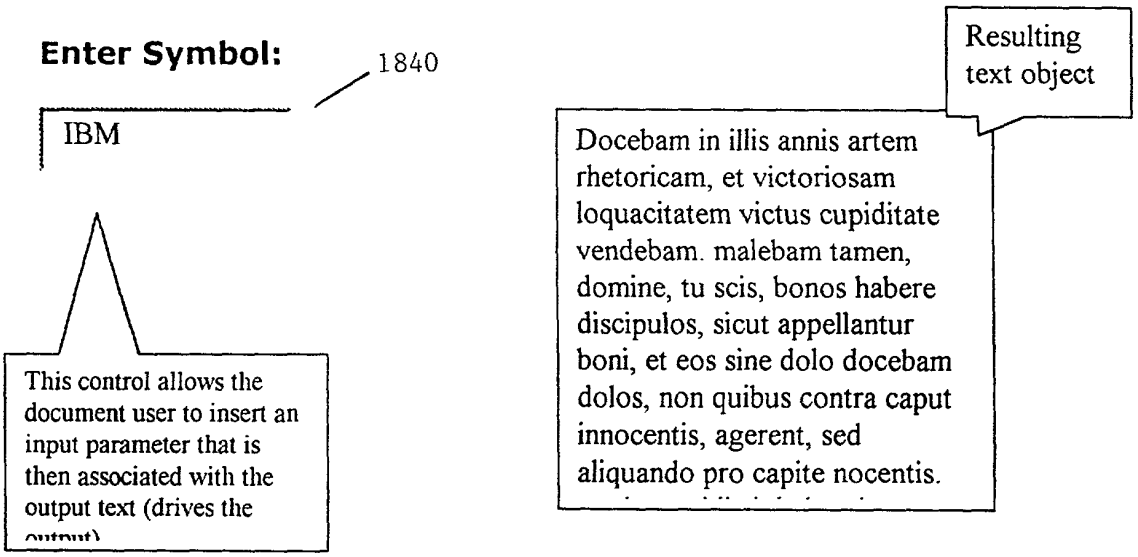
Enter Symbol:
1840
IBM
This control allows the document user to insert an input parameter that is then associated with the output text (drives the
Resulting text object
Docebam in illis annis artem rhetoricam, et victoriosam loquacitatem victus cupiditate vendebam. malebam tamen, domine, tu scis, bonos habere discipulos, sicut appellantur boni, et eos sine dolo docebam dolos, non quibus contra caput innocentis, agerent, sed aliquando pro capite nocentis.

FIG. 18H

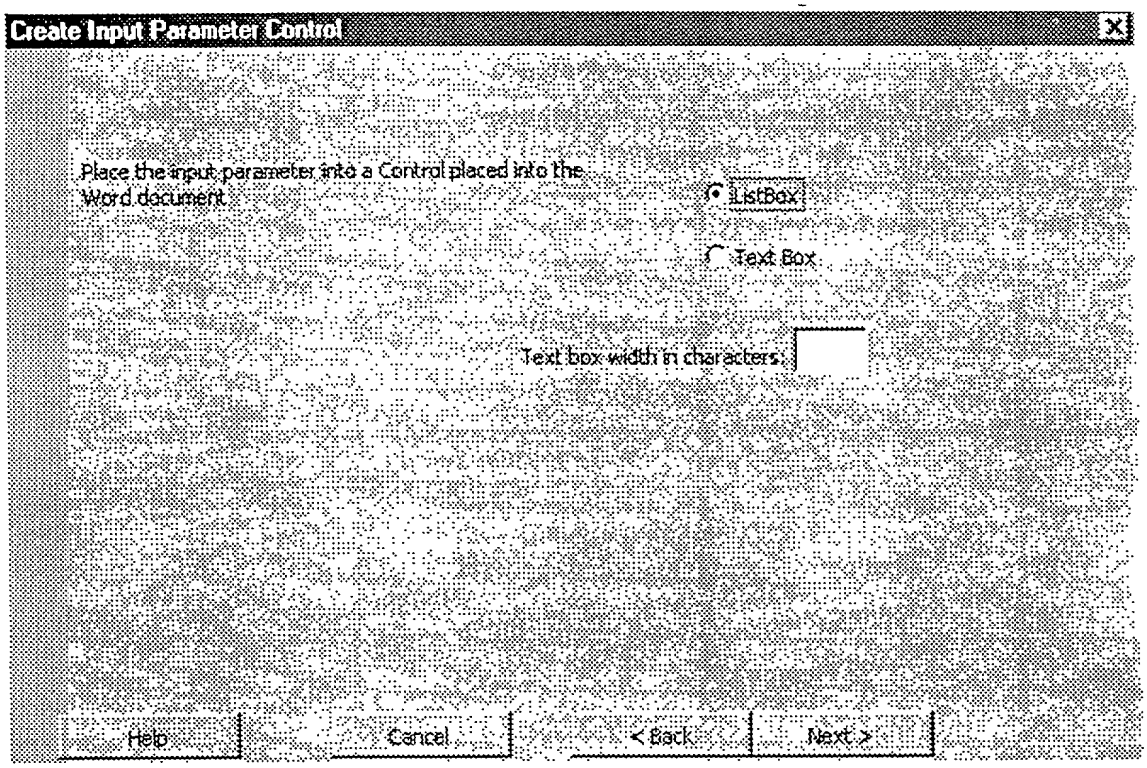
Create Input Parameter Control
Place the input parameter into a Control placed into the Word document
ListBox
Text Box
Text box width in characters:
Help
Cancel
< Back
Next >

FIG. 18I

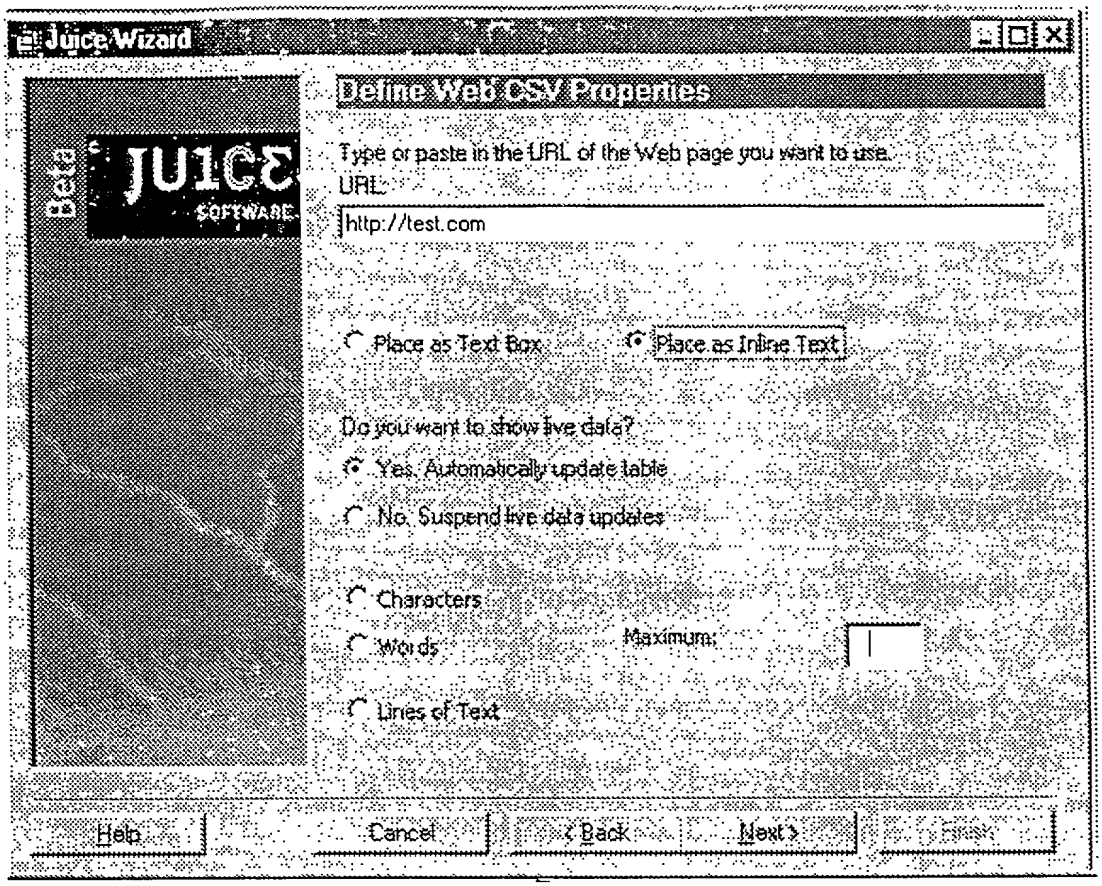
Juice Wizard
Beta
JUICE
SOFTWARE
Define Web CSV Properties
Type or paste in the URL of the Web page you want to use.
URL:
http://test.com
Place as Text Box
Place as Inline Text
Do you want to show live data?
Yes, Automatically update table
No, Suspend live data updates
Characters
Words
Maximum:
Lines of Text
Help
Cancel
< Back
Next >
Finish

FIG. 18J

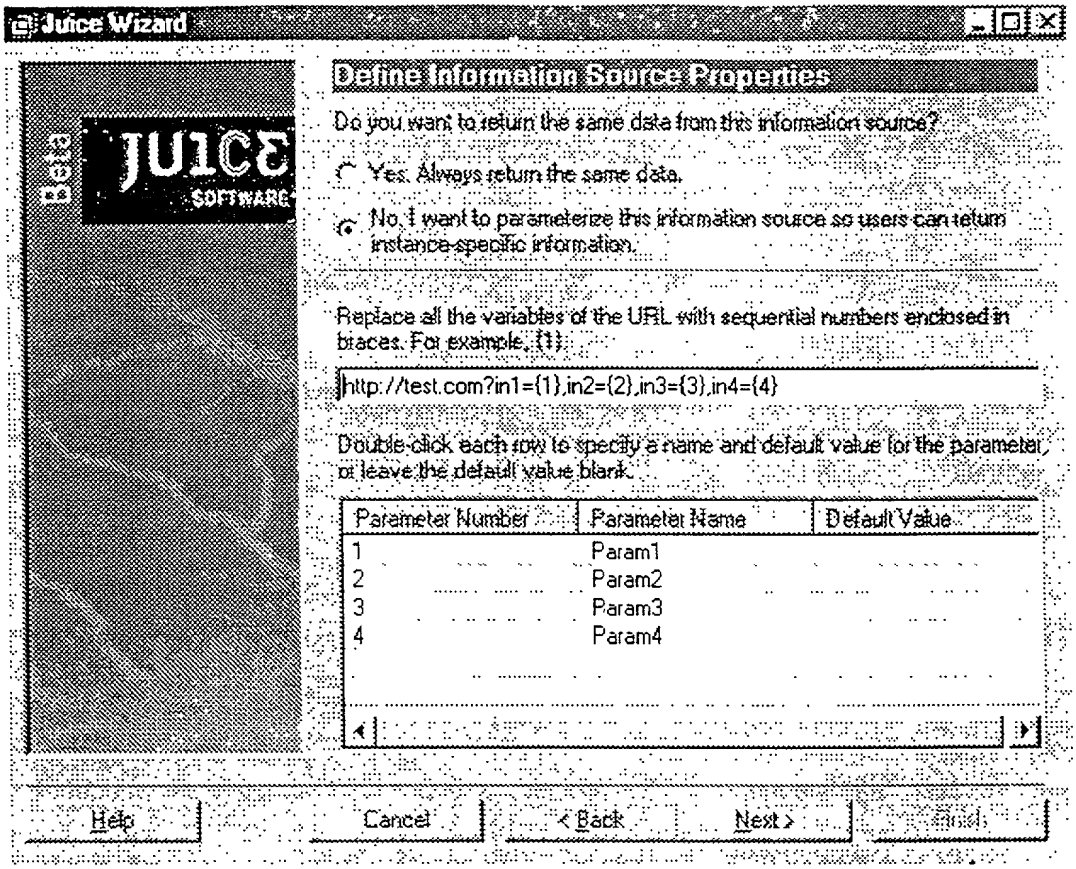
Juice Wizard
Beta
JUICE
SOFTWARE
Define Information Source Properties
Do you want to return the same data from this information source?
Yes. Always return the same data.
No. I want to parameterize this information source so users can return instance-specific information.
Replace all the variables of the URL with sequential numbers enclosed in braces. For example, {1}.
http://test.com?in1={1},in2={2},in3={3},in4={4}
Double-click each row to specify a name and default value for the parameter, or leave the default value blank.
Parameter Number
Parameter Name
Default Value
1
Param1
2
Param2
3
Param3
4
Param4
Help
Cancel
< Back
Next >
Finish

FIG. 18K

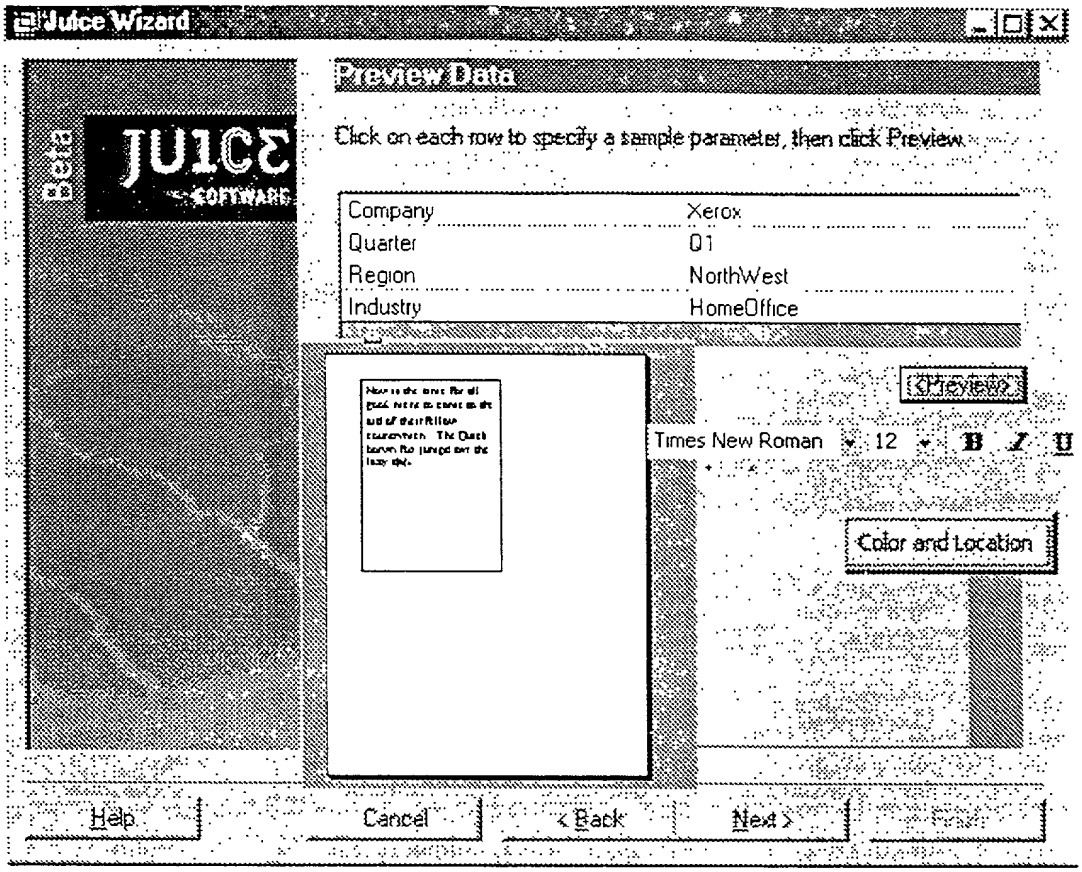
Juice Wizard
Preview Data
Beta
JUICE
SOFTWARE
Click on each row to specify a sample parameter, then click Preview.
Company
Xerox
Quarter
Q1
Region
NorthWest
Industry
HomeOffice
<Preview>
Times New Roman
12
Color and Location
Help
Cancel
< Back
Next >
Finish

FIG. 18L

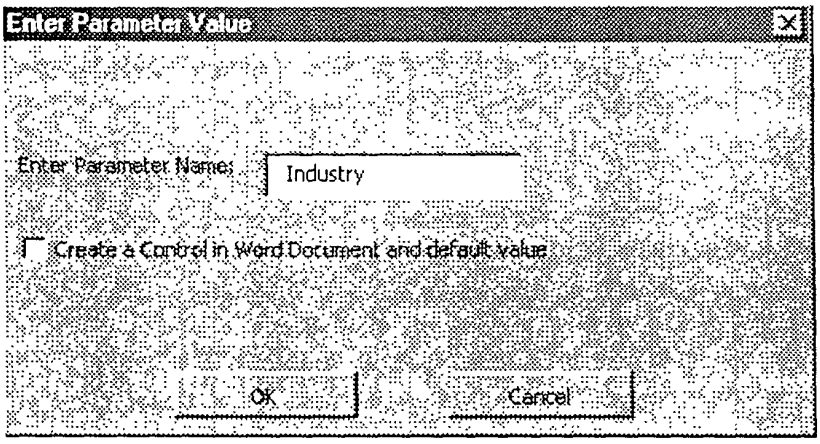
Enter Parameter Value
Enter Parameter Name:
Industry
Create a Control in Word Document and default value
OK
Cancel

FIG. 18M

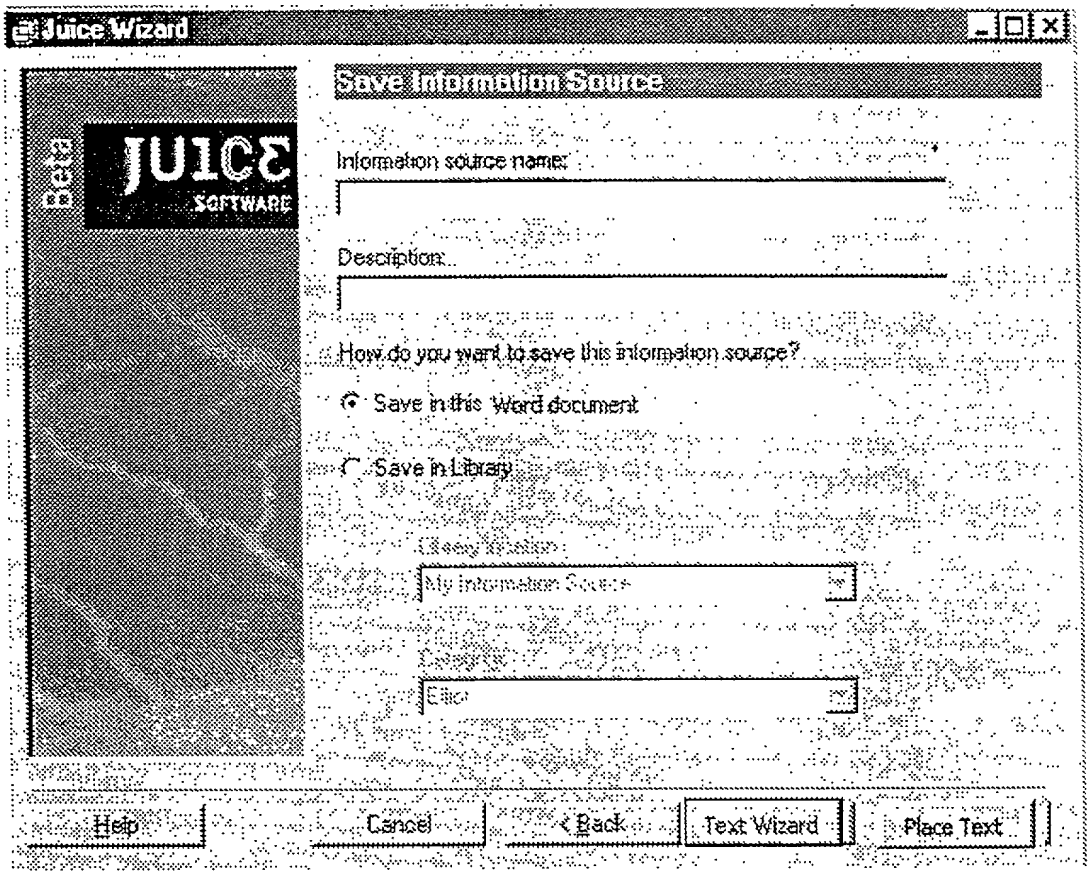
Juice Wizard
Beta
JUICE
SOFTWARE
Save Information Source
Information source name:
Description:
How do you want to save this information source?
Save in this Word document
Save in Library
Help
Cancel
< Back
Text Wizard
Place Text

FIG. 18N

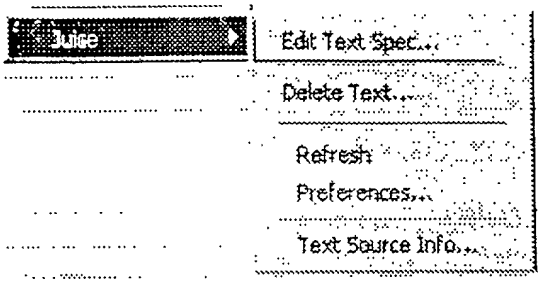
Juice
Edit Text Spec...
Delete Text...
Refresh
Preferences...
Text Source Info...

FIG. 180